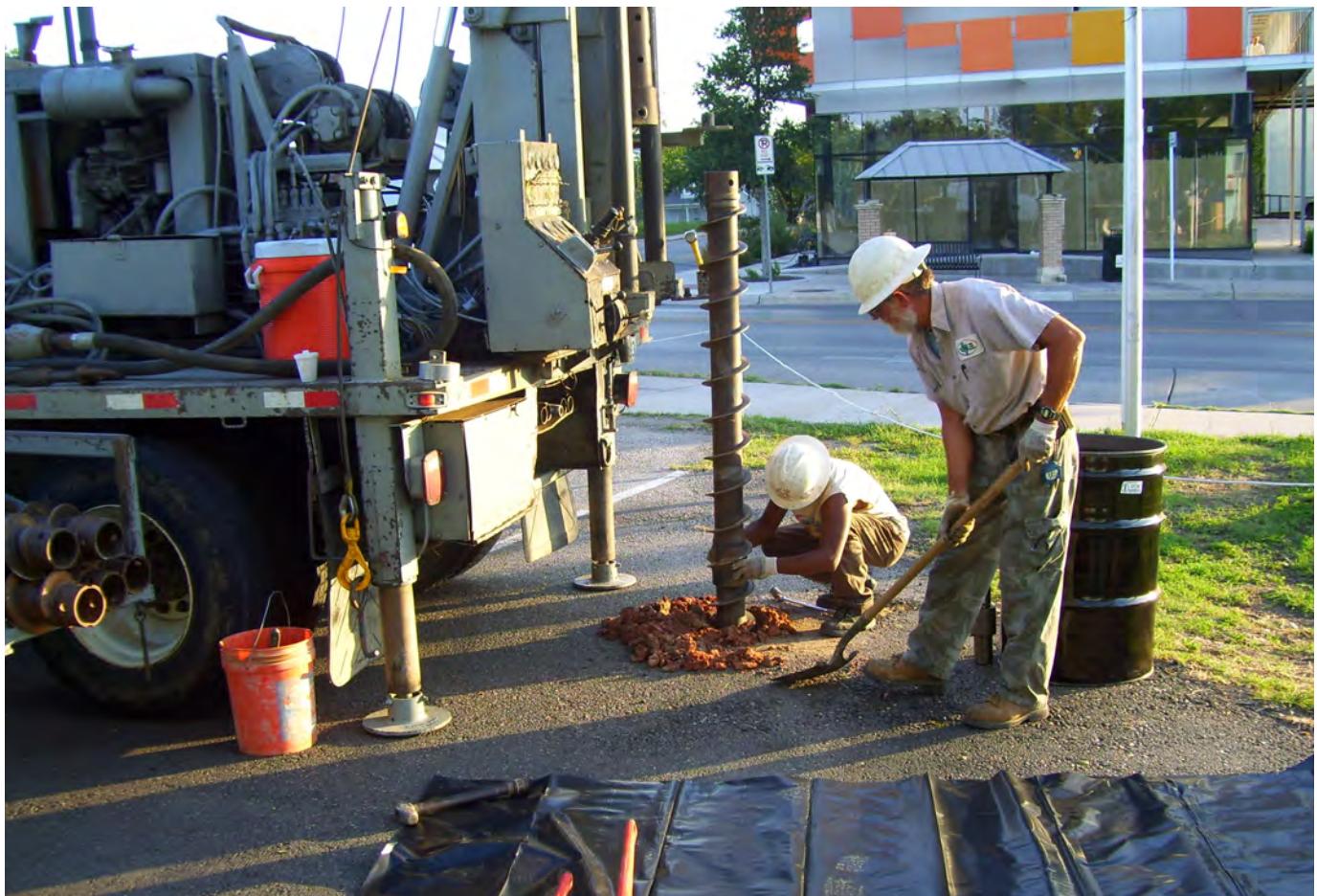


**TARGETED BROWNFIELDS ASSESSMENT (TBA)
LIMITED PHASE II ENVIRONMENTAL SITE
ASSESSMENT
1201 EAST 11TH STREET
AUSTIN, TEXAS**

*Prepared for the United States Army Corps of Engineers
Fort Worth District
819 Taylor Street
Fort Worth, Texas 76102*

July 26, 2011



Baer Engineering and Environmental Consulting, Inc.
7756 Northcross Drive, Suite 211, Austin, Texas 78757
Phone: 512/453-3733; Fax: 512/453-3316
Baer Document No. 112011-8I.010

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EXECUTIVE SUMMARY

The subject property (Site) is located at 1201 East 11th Street in Austin, Texas. At the property is an automobile detailing business that consists of a small, single-story cinderblock building and three covered bays for vehicle washing.

Historical information shows that the Site was previously used as a gasoline service station. The station had two underground storage tanks. It is not known whether the tanks have been removed. The current facility includes a concrete vault that collects liquid from the car washing area and a restroom. The integrity of this wastewater system is not known. The underground tanks and the wastewater system have the potential to affect the Site.

There was previously a dry cleaning business across 11th Street to the north of the Site. There were two other properties near the Site that had underground gasoline storage tanks. These offsite sources have the potential to affect the Site.

This Phase 2 investigation was designed to determine whether the potential sources of contamination discussed above have affected the Site. Five soil borings were drilled at the Site, and soil samples from the borings were logged in the field. One soil sample from each boring was delivered to a laboratory for analysis of total petroleum hydrocarbons (TPH) and the RCRA-8 metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver). The soil samples from the north part of the Site were analyzed for volatile organic compounds (VOCs).

A temporary monitoring well was installed in each of the five soil borings, and groundwater samples were collected. The samples were analyzed for TPH, RCRA-8 metals, and VOCs.

Field observations and laboratory analysis of soil and groundwater samples suggest that no contamination above natural background concentrations exists in the soil. The groundwater from each of the wells had low concentrations of TPH. None of the compounds that were analyzed had concentrations above the Texas Commission on Environmental Quality's (TCEQ's) Petroleum Storage Tank (PST) Program's Action Levels as defined in the TCEQ Regulatory Guidance Document: RG-411. The hydrocarbons are not expected to be a human health hazard.

1.0 Purpose

The Phase II assessment was designed to investigate the Recognized Environmental Conditions (RECs), as defined by the ASTM Standard E1527-05, that were listed for the Site in the Phase 1 ESA report prepared by Baer Engineering in November of 2010. The RECs from the Phase 1 ESA report are listed below.

- The Site is a former gasoline service station that had two underground fuel tanks beneath the north part of the Site. It is not known whether the tanks have been removed. Baer Engineering considers the potential release of gasoline from these tanks to be a REC.
- The wastewater system at the Site includes a 1500-gallon vault that collects liquid from vehicle washing bays and a restroom. According to on-site personnel, this tank previously discharged to the sanitary sewer. The plumbing from the vault to the municipal wastewater sewer is clogged for unknown reasons. The plumbing may be broken, and if it is, liquid from the vault may be leaking to the soil or groundwater. Baer Engineering considers the potential release of petroleum hydrocarbons, metals, and volatile organic compounds (VOCs) to the environment through a broken pipe in this system to be a REC.
- In the 1950s and 1960s there was a dry cleaner on the adjacent property to the north. Because of the potential for releases of dry cleaning compounds to the groundwater, and the likely up-gradient location of the cleaner, Baer Engineering considers this facility to be a REC.
- Historical records indicate there may have been an underground gasoline storage tank at 1123 E. 11th Street, which is west of the Site. Because of the proximity of the tank to the Site and its likely location up-gradient from the Site, Baer Engineering considers this location to be a REC.
- Historical records indicate there may have been an underground gasoline storage tank at 1129½ E. 11th Street, which is west of the Site. Because of the proximity of the tank to the Site and its likely location up-gradient from the Site, Baer Engineering considers this location to be a REC.

Baer Engineering proposed to collect soil and groundwater samples from five locations across the Site, and analyze the samples for contaminants that are indicative of releases of petroleum, dry cleaning compounds, and metals.

2.0 Subsurface Soil Sampling and Analytical Results

On June 29, 2011, Baer Engineering mobilized to the site with a drilling rig operated by Total Support Systems. Drilling occurred on June 29 and 30. Hollow-stem augers were used, and soil samples were recovered with a 5-foot long, 3-inch diameter split barrel sampler that was used inside the augers.

Soil boring locations were selected based on the likely previous location of underground tanks, the direction to potential offsite sources of contamination, and the current location of the wastewater system. Their locations are described below, and are shown on the Site map in Appendix A.

Boring / Temporary Well	Location	Total Depth	Depth to Water
B1 / TMW-1	Northwest part of Site	20 feet	18.3 feet
B2 / TMW-2	Northeast part of Site	23 feet	17.7 feet
B3 / TMW-3	South of wastewater vault	20 feet	17.2 feet
B4 / TMW-4	Near sewer line	20.5 feet	16.7 feet
B5 / TMW-5	Middle of west side of Site	20 feet	17.3 feet

Soil borings B1 and B2 were drilled on the north part of the Site because underground storage tanks may have been located there, and this area is closest to the former dry cleaning business that was across 11th Street to the north. Borings B3 and B4 were drilled near the existing underground vault for the wastewater system, and in the area with the sewer line that connects the vault with the main wastewater line beneath Lydia Street. Boring B5 was drilled on the west side of the Site in the direction of former offsite petroleum storage tanks.

Except at Boring B3, all of the borings locations had asphalt paving at the surface. The soil consisted mostly of a red-brown mixture of silt, sand, gravel, and cobbles. Typically, the soil was very hard and drilling proceeded slowly. Groundwater was encountered at approximately 17 to 18 feet deep. Limestone bedrock was encountered at Boring B2 at a depth of 21 feet.

Soil samples from the borings were placed in sealable plastic bags, and after several minutes the concentration of VOCs in the air in the bags was measured with a photoionization detector (PID). This screening method was used in determining which soil samples would be delivered to a laboratory for analysis.

Field observations suggested that the soil from each boring except Boring B1 was apparently uncontaminated with petroleum or VOCs. There was no unnatural staining, odor, or elevated PID measurements. The soil in Boring B1 appeared to be uncontaminated to a depth of 16 feet. Below 16 feet the soil was gray (in contrast with the brown and red-brown material above it), and it had a hydrocarbon odor. The soil with the hydrocarbon odor was mostly below the water table.

One soil sample from each boring was selected for laboratory analysis based on the PID measurements. In the case of borings with no elevated PID readings, a soil sample from the vadose zone near the water table was selected. The samples were put in laboratory containers and placed in a cooler with ice. They were delivered to the laboratory on July 1, 2011. The following table summarizes the results of the laboratory analysis. Only the analytes that were detected above the method detection limit are listed.

Summary of Analytical Results for Soil Samples

All values are in milligrams per kilogram (mg/kg), except where noted.

Sample	B1-17	B2-15	B3-15	B4-15	B5-16	Action Level or PCL ¹
Depth, feet	17	15	15	15	16	--
PID reading, ppm ²	30	0.1	0.0	0.0	0.0	--
TPH, C ₆ -C ₁₂	55.1	<22	<21.4	<22.4	<21.2	1,600
TPH, C ₁₂ -C ₂₈	14.1 ^J	<22	<21.4	<22.4	<21.2	2,300
TPH, C ₂₈ -C ₃₅	<27	<22	<21.4	<22.4	<21.2	2,300
TPH, C ₆ -C ₃₅	69.2	<22	<21.4	<22.4	<21.2	None
Arsenic	2.74	3.89	3.48	4.23	1.07	24
Barium	119	72.6	492	49.0	18.9	8,100
Cadmium	0.407	0.131 ^J	0.257 ^J	0.279	0.0746 ^J	52
Chromium	16.7	8.33	6.52	7.47	2.72	33,000
Lead	14.1	4.63	3.99	3.66	1.32	500
Mercury	0.0204 ^J	0.0209 ^J	<0.0422	0.0106 ^J	<0.0219	3.6
Selenium	1.27	0.656	0.653	0.570	0.296	310
Silver	<0.247	<0.221	<0.204	<0.112	<0.108	97

¹PCL is the Tier 1 Protective Concentration Level established by the TCEQ for residential properties. This is a health-based concentration, included here for comparison purposes only. These numbers are not applicable to PST sites for cleanup purposes.

²The PID was calibrated with 100 ppm isobutylene.

^JA J-flag means that the analyte was detected at a concentration between the Method Detection Limit and the Reporting Limit.

The Texas Commission on Environmental Quality (TCEQ) PST program (Regulatory Guidance document RG-411) has established Action Levels for hydrocarbon concentrations found during investigations of potential PST sites. These action levels were not exceeded for any chemical of concern. These chemicals include benzene, toluene, ethylbenzene, xylenes, and methyl tertiary butyl ether (BTEX/MTBE), which were not detected in any of the samples.

Petroleum hydrocarbons (TPH) were detected in the sample from Boring B1. This confirmed the field observation that there is a narrow zone of saturated soil with hydrocarbon contamination.

The soil was hard and contained gravel and cobbles of quartz and chert, and this caused penetration by the augers to proceed very slowly. Friction between the augers and the soil created heat, and the sampling equipment and soil became hot. This unavoidable condition likely negatively biased the analysis of VOCs.

4.0 Groundwater Sampling and Analytical Results

Temporary monitoring wells were constructed in all five of the soil borings. The wells were built with 10 feet of screen. Filter sand was placed around the screen, and a bentonite seal was placed above the sand.

Groundwater samples were collected from the temporary wells. Single-use plastic bailers were used to retrieve groundwater from the wells, and the water was transferred to laboratory containers and placed on ice. The samples for metals were filtered in the field by passing the water through a Whatman #1 paper filter with an 11 micron particle retention rating. After sampling, the well screens and casings were removed and the borings were filled with bentonite chips. The surface was patched with concrete. The samples were delivered to DHL Laboratory for analysis of TPH, VOCs, and RCRA-8 metals. The analytical results are summarized in the following table.

Summary of Analytical Results for Groundwater Samples

All values are in milligrams per liter (mg/L), except where noted.

Shaded values exceed the Action Level or the PCL.

Sample	TMW-1	TMW-2	TMW-3	TMW-4	TMW-5	Action Level or PCL ¹
TPH, C ₆ -C ₁₂	<1.95	<1.96	<1.94	<1.88	<1.96	0.98
TPH, C ₁₂ -C ₂₈	4.55	5.50	3.98	2.99	3.18	0.98
TPH, C ₂₈ -C ₃₅	<1.95	<1.96	0.709 ^J	<1.88	0.767 ^J	0.98
TPH, C ₆ -C ₃₅	4.55	5.50	4.69	2.99	3.95	Not established
Barium	0.139	0.216	0.123	0.128	0.172	2.0
Lead	0.000618 ^J	0.000443 ^J	<0.001	0.000823 ^J	<0.001	0.015
Selenium	0.00234 ^J	<0.006	0.00411 ^J	0.00381 ^J	0.00332	0.05
Acetone	0.0149 ^J	<0.015	<0.015	<0.015	<0.015	22
Chloroform	<0.001	<0.001	<0.001	0.0009 ^J	0.00097 ^J	0.24

¹PCL is the Tier 1 Protective Concentration Level established by the TCEQ for residential and commercial/industrial properties.

^JA J-flag means that the analyte was detected at a concentration between the Method Detection Limit and the Reporting Limit.

The PCLs for groundwater assume that the water will be ingested. The concentration of TPH exceeds the PCL at all of the sampling locations. The groundwater occurs in a thin layer above the bedrock, and the aquifer may not be productive enough to be used as a drinking water source. Testing of the aquifer through a pump test would be needed to establish its classification. If the aquifer has a yield of less than 150 gallons per day, or if it is saline, it may be a Class 3 groundwater source. This classification would change the PCLs to 100 times the values shown in the above table. If the PCLs for Class 3 groundwater are used, none of the analytical values would exceed the PCLs.

The TPH found in the groundwater is in the diesel range of hydrocarbons.

Concentrations of acetone and chloroform were measured at concentrations that are J-flagged. These compounds do not normally occur in groundwater.

5.0 Quality Control

Three samples were analyzed for the purpose of quality control. One sample was a duplicate soil sample that was collected at the same time as sample B1-17, which was from the apparently contaminated zone at 17 feet deep at Boring B1. The second quality control sample was a duplicate of the groundwater sample from TMW-1. The original sample and the duplicate from the soil are compared in the table below.

Analyte	B1-17	Duplicate	Relative Percent Difference
TPH, C ₆ -C ₁₂	55.1	22.7	20.8
TPH, C ₁₂ -C ₂₈	14.1 ^J	<22.6	Not applicable
TPH, C ₂₈ -C ₃₅	<27	<22.6	Not applicable
TPH, C ₆ -C ₃₅	69.2	22.7	25.3
Arsenic	2.74	3.06	2.76
Barium	119	120	0.21
Cadmium	0.407	0.329 ^J	5.3
Chromium	16.7	17.5	1.17
Lead	14.1	10.7	6.85
Mercury	0.0204 ^J	<0.0437	Not applicable
Selenium	1.27	1.33	1.15
Silver	<0.247	<0.231	Not applicable

The duplicate groundwater sample is compared to the original sample in the following table.

Analyte	TMW-1	Duplicate	Relative Percent Difference
TPH, C ₆ -C ₁₂	<1.95	<1.98	Not applicable
TPH, C ₁₂ -C ₂₈	4.55	3.53	6.31
TPH, C ₂₈ -C ₃₅	<1.95	<1.98	Not applicable
TPH, C ₆ -C ₃₅	4.55	3.53	6.31
Barium	0.139	0.143	0.709
Lead	0.000618 ^J	0.000517 ^J	4.45
Selenium	0.00234 ^J	0.00203 ^J	3.55
Acetone	0.0149 ^J	0.0154	0.825
Chloroform	<0.001	<0.001	Not applicable

A trip blank prepared by the laboratory was analyzed for VOCs. No VOCs were detected above the method detection limits in the trip blank. The temperature of the samples as they were received by the laboratory was 6°C.

6.0 Conclusions and Recommendations

The objective of the Phase 2 investigation was to determine if the Recognized Environmental Conditions (RECs) listed in the Phase 1 report had affected the Site. In summary, those RECs were:

- 1) A former gasoline service station at the Site.
- 2) The existing wastewater system at the Site.
- 3) A former dry cleaning business to the north of the Site.
- 4) Two underground petroleum storage tank properties to the west of the Site.

No underground storage tanks were discovered at the Site at the locations of the soil borings. This does not rule out the possibility that tanks exist at the Site.

The water table at the Site was approximately 17 feet below the surface. Soil samples from above the water table at the boring locations and analyzed by a laboratory were not contaminated by TPH, metals, or VOCs above the TCEQ's Action Levels or PCLs.

The groundwater at the Site has widespread, low-level concentrations of TPH. The concentrations exceeded the PCLs. However, testing of the aquifer might show that it can be classified as Class 3, which would increase the applicable PCLs to concentrations above those in the groundwater. The source of the TPH contamination could not be determined. The TPH is in the diesel range of hydrocarbon compounds.

The concentration of lead and other metals in the soil and groundwater did not exceed the PCLs.

Concentrations of acetone and chloroform were measured at concentrations that are J-flagged. These compounds do not normally occur in groundwater. Both compounds may be a result of laboratory contamination. Chloroform was found at low concentrations in the groundwater samples from TMW-4 and TMW-5, which are close to the wastewater system. The concentrations of chloroform are not confirmed above the laboratory's reporting limit and no conclusion can be drawn about their source.

Based on our investigation, we can make the following conclusions.

1. Significant contamination of the soil by TPH, VOCs, or metals is not likely.
2. The groundwater occurs in a thin layer immediately above the bedrock.
3. There is widespread, low-level, contamination by TPH in the groundwater.

We do not recommend additional investigation of the TPH contamination in the groundwater at this time. The Action Levels that have been established by the TCEQ for petroleum storage tank sites have not been exceeded, so reporting of the site to the TCEQ is not required.

If soil from deeper than approximately 16 feet is excavated, or if workers are exposed to the soil from below that depth, we recommend additional testing to determine if personal protective equipment is needed, and to determine the proper disposal method for the soil.

7.0 Limitations

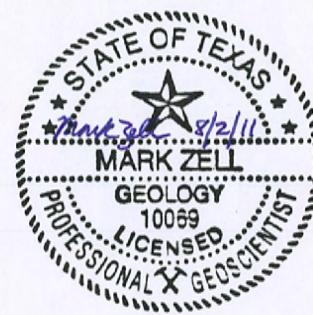
The following limitations apply when evaluating the data in this report:

- Baer Engineering examined samples at discrete locations, and conditions can vary widely in short distances both horizontally and vertically, depending on conditions not evaluated in this report.
- The soils assessment can provide positive confirmation of contamination, but negative data (the absence of contamination in the soil samples) cannot eliminate the possibility that contamination exists elsewhere on the property.
- Recognize that special risks occur whenever engineering or related disciplines are applied to identify subsurface conditions. Even a comprehensive sampling and testing program, implemented with the appropriate equipment and experienced personnel under the direction of a trained professional who functions in accordance with a professional standard of care may fail to detect certain conditions, because they are hidden and therefore cannot be considered in development of a subsurface exploration program. For similar reasons, actual environmental, geologic and geotechnical conditions that the scientist properly infers to exist between sampling points may differ significantly from those that actually exist. The passage of time must also be considered. Recognize that, due to natural occurrences or direct or indirect human intervention at the site or distant from it, actual conditions discovered may quickly change. Realize that nothing can be done to eliminate these risks altogether, but certain techniques can be applied by the scientist to help reduce them to that level deemed tolerable by client. The scientist is available to explain these risks and risk reduction methods to client but, in any event, the scope of services included with this agreement is that which client agreed to or selected in light of his own risk preferences and other considerations.

8.0 Signatures

Mark Zell

Mark Zell, P.G.
Texas Professional Geoscientist (Geology) No. 10069
Senior Geologist



APPENDIX A
Site Map with Sampling Locations



Soil Boring Locations
1201 E. 11th Street
Austin, TX 78702

Produced by: M. Johnson
July 6, 2011



0 10 20 Feet



Baer Engineering
and Environmental Consulting, Inc.

Site Map

- Boring Locations
- Site

APPENDIX B
Soil boring logs

PROJECT: 1201 E. 11th Street, Austin, TX
 PROJECT NUMBER: 112011.01
 CLIENT: US Army Corps of Engineers
 BORING / WELL NUMBER: B1
 TOTAL DEPTH: 20 feet
 LOCATION DESCRIPTION: Northwest part of property
 GEOLOGIST: Mark Zell, P.G. #10069



Baer Engineering

and Environmental Consulting, Inc.

DRILLER: Total Support Services - Brian/Diaz

DRILLING

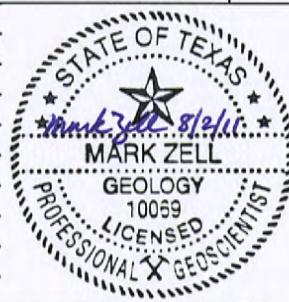
METHOD: Hollow Stem Auger

BORE HOLE

DIAMETER: 8 inches

DATE AND TIME: 29-June-2011 1100

DEPTH (FT)	Sampled Interval	Recovery (ft.)	PID Reading (ppm)	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM	Laboratory Sample
0					Asphalt	
1-5	4		1-5	0.0	Sandy gravelly clay, red-brown, with some caliche, gravel to 2 in. diam., hard, dry	
				0.1		
5	5-10	2		5-7	Silty gravelly sand, red-brown, dry, gravel to 2 in. diam.	
			0.4			
10	10-15	2.5		10-12.5	Silty sand with some cobbles, brown, dry, limestone cobbles >3 in. diam. at base	
			0.5		Very hard drilling in this interval; samples are very hot.	
15	15-20	2.5	0.3	15-16	Silty sand with some large gravel, brown, moist, no odor	
				16-17.5	Silty cobbly sand, brown and gray, wet, hydrocarbon odor	X
20						
25					Total depth = 20 feet below surface	
					Temporary well set with 10 ft screen, 10 ft casing	
					DTW after drilling = 18.3 ft. below surface, very slow recharge	
30						
35						
40						



PROJECT: 1201 E. 11th Street, Austin, TX
 PROJECT NUMBER: 112011.01
 CLIENT: US Army Corps of Engineers
 BORING / WELL NUMBER: B2
 TOTAL DEPTH: 23 feet
 LOCATION DESCRIPTION: Northeast part of property
 GEOLOGIST: Mark Zell, P.G. #10069



Baer Engineering

and Environmental Consulting, Inc.

DRILLER: Total Support Services - Brian/Diaz

DRILLING

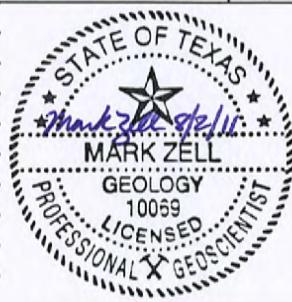
METHOD: Hollow Stem Auger

BORE HOLE

DIAMETER: 8 inches

DATE AND TIME: 29-June-2011 0710

DEPTH (FT)	Sampled Interval	Recovery (ft.)	PID Reading (ppm)	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM	Laboratory Sample
0					Asphalt	
1-5	4			1-5	Gravelly clay with some cobbles to 3 in. diam., red-brown, some caliche at 3-5 ft. deep, dry, hard, no odor	
			0.0			
5	5-10	1	0.0	5-6	Silty sand with some gravel, red-brown, dry, large chert cobble at bottom of sample	
			0.0			
10	10-15	1.5		10-11.5	Silty gravelly cobbly sand, red-brown, dry	
			0.2		Sample is hot.	
15	15-20	2	0.1	15-16	Silty gravelly sand, red-brown, dry	X
				16-16.5	Silty sand with cobbles of chert	
			0.0	16.5-17	Gravelly sand, brown, wet, no odor	
					Hard drilling at 17 ft deep	
20	20-23	1	0.2	20-21	Gravelly coarse sand, brown, wet, no odor. Bedrock at 21 ft. below surface. Sample is hot.	
25					Total depth of well = 22.5 ft. below surface	
					Temporary well set with 15 ft. screen, 10 ft. casing	
					DTW after drilling = 17.7 ft. below surface	
30						
35						
40						



PROJECT: 1201 E. 11th Street, Austin, TX
 PROJECT NUMBER: 112011.01
 CLIENT: US Army Corps of Engineers
 BORING / WELL NUMBER: B3
 TOTAL DEPTH: 20 feet
 LOCATION DESCRIPTION: South of bays; east side
 GEOLOGIST: Mark Zell, P.G. #10069



Baer Engineering

and Environmental Consulting, Inc.

DRILLER: Total Support Services - Brian/Diaz

DRILLING

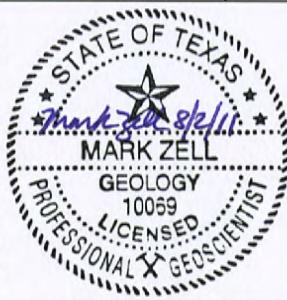
METHOD: Hollow Stem Auger

BORE HOLE

DIAMETER: 8 inches

DATE AND TIME: 30-June-2011 0930

DEPTH (FT)	Sampled Interval	Recovery (ft.)	PID Reading (ppm)	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM	Laboratory Sample
0				0-0.5	Rocks, concrete debris	
0.5-5	1.5			0.5-2	Sandy gravelly silt, red-brown, gravel to 2 in. diam.,	
			0.0		dry, hard, no odor	
5	5-10	1		5-6	Silty gravelly sand, red-brown, dry	
			0.0			
10	10-15	1.5		10-11.5	Silty gravelly sand, brown, dry, cobbles to 3 in. diam.	
			0.0			
15	15-20	2	0.0	15-16	Gravelly sandy silt, dark brown, moist, no odor	X
				16-16.5	Gravelly sand, brown, moist, no odor	
			0.0	16.5-17	Weathered limestone, wet	
20	20-20.2	0.2		20-20.2	Limestone	
25					Total depth of well = 19.1 feet below surface	
					Temporary well set with 10 ft. screen, 10 ft. casing	
					DTW after drilling = 17.2 ft below surface	
30						
35						
40						



PROJECT: 1201 E. 11th Street, Austin, TX
 PROJECT NUMBER: 112011.01
 CLIENT: US Army Corps of Engineers
 BORING / WELL NUMBER: B4
 TOTAL DEPTH: 20.5 feet
 LOCATION DESCRIPTION: Middle of south side of property
 GEOLOGIST: Mark Zell, P.G. #10069



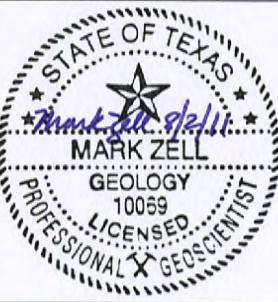
Baer Engineering

and Environmental Consulting, Inc.

DRILLER: Total Support Services - Brian/Diaz
 DRILLING
 METHOD: Hollow Stem Auger
 BORE HOLE
 DIAMETER: 8 inches

DATE AND TIME: 30-June-2011 1215

DEPTH (FT)	Sampled Interval	Recovery (ft.)	PID Reading (ppm)	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM		Laboratory Sample
0					Asphalt		
1-5	3			1-4	Silty gravelly sand, red-brown and gray, gravel to 2 in. diam., moist, hard, no odor		
			0.1				
5	5-10	1	0.1	5-6	Sandy cobbly silt, red-brown, cobbles to >3 in. diam., no odor. Sample is hot.		
10	10-15	1	0.1	10-11	Silty cobbly sand, red-brown, hard. Very hot sample.		
15	15-20	1	0.0	15-16	Medium to coarse sand, brown, wet, no odor, clay layer at bottom of sample	X	
20	20-20.5	0.5	0.0	20-20.5	Weathered limestone, wet		
25					Total depth of well = 19.4 ft. below surface Temporary well set with 10 ft. screen, 10 ft. casing DTW after drilling = 16.7 ft. below surface		
30							
35							
40							

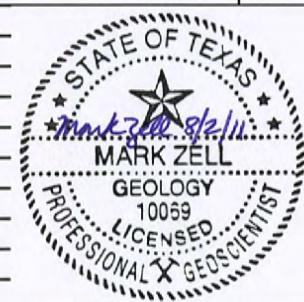


PROJECT:	1201 E. 11th Street, Austin, TX					
PROJECT NUMBER:	112011.01					
CLIENT:	US Army Corps of Engineers					
BORING / WELL NUMBER:	B5	DRILLER:	Total Support Services - Brian/Diaz			
TOTAL DEPTH:	20 feet	DRILLING				
LOCATION		METHOD:	Hollow Stem Auger			
DESCRIPTION	West side, south part of property	BORE HOLE				
GEOLOGIST:	Mark Zell, P.G. #10069	DIAMETER:	8 inches			
		DATE AND TIME: 30-June-2011 1515				
DEPTH (FT)	Sampled Interval	Recovery (ft.)	PID Reading (ppm)	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM	Laboratory Sample
0					Asphalt	
1-5	4			1-5	Sandy gravelly silt, red-brown, gravel to 1 in. diam., moist, hard, no odor	
		0.0				
		0.0				
5	5-10	5	0.0	5-10	Sandy gravelly silt, red-brown, gravel to 2 in. diam., moist, no odor	
		0.0				
		0.0				
10	10-15	2.5	0.0	10-12.5	Silty cobbly sand, red-brown, cobbles to 3 in. diam., no odor	
		0.0				
		0.0				
15	15-20	1.5		15-16.5	Gravelly sand, brown, moist, gravel to 2 in. diam.	
		0.0				X
20						
25					Total depth = 20 ft. below surface	
					Temporary well set with 10 ft. screen, 10 ft. casing	
					DTW after drilling = 17.3 ft. below surface	
30						
35						
40						



Baer Engineering

and Environmental Consulting, Inc.



**APPENDIX C
Laboratory report**



July 12, 2011

Mark Zell
Baer Engineering
7756 Northcross Dr #211
Austin, Texas 78757

TEL: (512) 453-3733
FAX: (512) 453-3316

Order No: 1107006

RE: USACE 1201 E 11TH

Dear Mark Zell:

DHL Analytical received 14 sample(s) on 7/1/2011 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative and all estimated uncertainties of results are within method specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink that reads "John DuPont".

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number:
T104704211-11-6



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2300 Double Creek Dr. ■ Round Rock, TX 78664
Phone (512) 388-8222 ■ FAX (512) 388-8229
Web: www.dhlanalytical.com
E-Mail: login@dhlanalytical.com



Nº 50774

CHAIN-OF-CUSTODY

CLIENT: Baer Engineering
ADDRESS: 7156 Northcross
PHONE: 512 453 3733 FAX/E-MAIL: _____
DATA REPORTED TO: MZ
ADDITIONAL REPORT COPIES TO: _____

DATE: 7-1-11 PAGE 1 OF 1
PO #: DHL WORK ORDER #: 11072axc
PROJECT LOCATION OR NAME: USACE 1201 E 11th
CLIENT PROJECT #: 112011.01 COLLECTOR: MZ

Sample Receipt Checklist

Client Name Baer Engineering

Work Order Number 1107006

Date Received: 7/1/2011

Received by JB

Checklist completed by: JB 7/1/11 Reviewed by: SS 7-1-11
 Signature Date Initials Date

Carrier name: Hand Delivered

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> 6.0 °C	
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> No VOA vials submitted <input type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> Not Applicable <input type="checkbox"/>	

Adjusted? MChecked by OB

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

_____Corrective Action: _____

CLIENT: Baer Engineering
Project: USACE 1201 E 11TH
Lab Order: 1107006

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and TCEQ method TX1005.

For Metals analysis by method SW6020 Lead was detected below the reporting limit in the method blank (MB-47045). All associated samples were detected greater than 10 times the amount in the blank. No further corrective actions were taken.

All method blanks, sample duplicates, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Metals analysis by method SW6020 (batch 47045) the RPD for the serial dilution was above control limits for Arsenic and Chromium. These are flagged accordingly in the enclosed QC summary report. The PDS was within control limits for these analytes. No further corrective actions were taken.

For Volatiles analysis by method SW8260C the LCS was above control limits for Bromomethane. This is flagged accordingly. All samples were below detection limits for this compound. No further corrective actions were taken.

For Volatiles analysis by method SW8260C the surrogate recoveries for samples B1-17 and DUPLICATE were out of control limits 4-Bromofluorobenzene and/or Toluene-d8. These are flagged accordingly. The remaining surrogates were within control limits. No further actions were taken.

CLIENT: Baer Engineering
Project: USACE 1201 E 11TH
Project No: 112011.01
Lab Order: 1107006

Client Sample ID: B2-15
Lab ID: 1107006-01
Collection Date: 06/29/11 09:30 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Tx1005 TPH Soil		TX1005					Analyst: DEW
T/R Hydrocarbons: C6-C12	ND	7.71	22.0		mg/Kg-dry	1	07/01/11 02:33 PM
T/R Hydrocarbons: >C12-C28	ND	7.71	22.0		mg/Kg-dry	1	07/01/11 02:33 PM
T/R Hydrocarbons: >C28-C35	ND	7.71	22.0		mg/Kg-dry	1	07/01/11 02:33 PM
T/R Hydrocarbons: C6-C35	ND	7.71	22.0		mg/Kg-dry	1	07/01/11 02:33 PM
Surr: Isopropylbenzene	91.2	0	70 - 130		%REC	1	07/01/11 02:33 PM
Surr: Octacosane	94.8	0	70 - 130		%REC	1	07/01/11 02:33 PM
Total Mercury: Soil/Solid		SW7471B					Analyst: LM
Mercury	0.0209	0.0175	0.0438	J	mg/Kg-dry	1	07/06/11 12:12 PM
Trace Metals: ICP-MS - Solid		SW6020					Analyst: CZ
Arsenic	3.89	0.554	1.11		mg/Kg-dry	5	07/05/11 05:43 PM
Barium	72.6	0.554	2.21		mg/Kg-dry	5	07/05/11 05:43 PM
Cadmium	0.131	0.111	0.332	J	mg/Kg-dry	5	07/05/11 05:43 PM
Chromium	8.33	0.554	2.21		mg/Kg-dry	5	07/05/11 05:43 PM
Lead	4.63	0.111	0.332		mg/Kg-dry	5	07/05/11 05:43 PM
Selenium	0.656	0.166	0.554		mg/Kg-dry	5	07/05/11 05:43 PM
Silver	ND	0.111	0.221		mg/Kg-dry	5	07/05/11 05:43 PM
Volatiles by GC/MS		SW8260C					Analyst: KL
1,1,1,2-Tetrachloroethane	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
1,1,1-Trichloroethane	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
1,1,2,2-Tetrachloroethane	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
1,1,2-Trichloroethane	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
1,1-Dichloroethane	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
1,1-Dichloroethene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
1,1-Dichloropropene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
1,2,3-Trichlorobenzene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
1,2,3-Trichloropropane	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
1,2,4-Trichlorobenzene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
1,2,4-Trimethylbenzene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
1,2-Dibromo-3-chloropropane	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
1,2-Dibromoethane	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
1,2-Dichlorobenzene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
1,2-Dichloroethane	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
1,2-Dichloropropane	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
1,3,5-Trimethylbenzene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
1,3-Dichlorobenzene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
1,3-Dichloropropane	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
1,4-Dichlorobenzene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
2,2-Dichloropropane	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
2-Butanone	ND	0.00547	0.0164		mg/Kg-dry	1	07/01/11 03:10 PM
2-Chloroethylvinylether	ND	0.00547	0.0164		mg/Kg-dry	1	07/01/11 03:10 PM
2-Chlorotoluene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
2-Hexanone	ND	0.00547	0.0164		mg/Kg-dry	1	07/01/11 03:10 PM
4-Chlorotoluene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
4-Methyl-2-pentanone	ND	0.00547	0.0164		mg/Kg-dry	1	07/01/11 03:10 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

CLIENT: Baer Engineering
Project: USACE 1201 E 11TH
Project No: 112011.01
Lab Order: 1107006

Client Sample ID: B2-15
Lab ID: 1107006-01
Collection Date: 06/29/11 09:30 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Acetone	ND	0.0164	0.0547		mg/Kg-dry	1	07/01/11 03:10 PM
Benzene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
Bromobenzene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
Bromoform	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
Bromomethane	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
Carbon disulfide	ND	0.00547	0.0164		mg/Kg-dry	1	07/01/11 03:10 PM
Carbon tetrachloride	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
Chlorobenzene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
Chloroethane	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
Chloroform	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
Chloromethane	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
cis-1,2-Dichloroethene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
cis-1,3-Dichloropropene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
Dibromochloromethane	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
Dibromomethane	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
Dichlorodifluoromethane	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
Ethylbenzene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
Hexachlorobutadiene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
Iodomethane	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
Isopropylbenzene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
m,p-Xylene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
Methyl tert-butyl ether	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
Methylene chloride	ND	0.00547	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
n-Butylbenzene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
n-Propylbenzene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
Naphthalene	ND	0.00547	0.0164		mg/Kg-dry	1	07/01/11 03:10 PM
o-Xylene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
p-Isopropyltoluene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
sec-Butylbenzene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
Styrene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
tert-Butylbenzene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
Tetrachloroethene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
Toluene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
trans-1,2-Dichloroethene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
trans-1,3-Dichloropropene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
Trichloroethene	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
Trichlorofluoromethane	ND	0.00547	0.0164		mg/Kg-dry	1	07/01/11 03:10 PM
Vinyl chloride	ND	0.00109	0.00547		mg/Kg-dry	1	07/01/11 03:10 PM
Surr: 1,2-Dichloroethane-d4	96.9	0	52 - 149		%REC	1	07/01/11 03:10 PM
Surr: 4-Bromofluorobenzene	110	0	84 - 118		%REC	1	07/01/11 03:10 PM
Surr: Dibromofluoromethane	99.5	0	65 - 135		%REC	1	07/01/11 03:10 PM
Surr: Toluene-d8	99.1	0	84 - 116		%REC	1	07/01/11 03:10 PM

Percent Moisture**D2216****Analyst: JCG**

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

DHL Analytical

Date: 07/12/11

CLIENT: Baer Engineering
Project: USACE 1201 E 11TH
Project No: 112011.01
Lab Order: 1107006

Client Sample ID: B2-15
Lab ID: 1107006-01
Collection Date: 06/29/11 09:30 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Percent Moisture	11.4	0	0		WT%	1	07/06/11 08:45 AM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
B Analyte detected in the associated Method Blank
C Sample Result or QC discussed in the Case Narrative
DF Dilution Factor
E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
MDL Method Detection Limit
N Parameter not NELAC certified
ND Not Detected at the Method Detection Limit
RL Reporting Limit
S Spike Recovery outside control limits

CLIENT: Baer Engineering
Project: USACE 1201 E 11TH
Project No: 112011.01
Lab Order: 1107006

Client Sample ID: TMW-2
Lab ID: 1107006-02
Collection Date: 06/29/11 11:15 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Tx1005 TPH Water		TX1005					Analyst: DEW
T/R Hydrocarbons: C6-C12	ND	0.685	1.96		mg/L	1	07/01/11 10:49 AM
T/R Hydrocarbons: >C12-C28	5.50	0.685	1.96		mg/L	1	07/01/11 10:49 AM
T/R Hydrocarbons: >C28-C35	ND	0.685	1.96		mg/L	1	07/01/11 10:49 AM
T/R Hydrocarbons: C6-C35	5.50	0.685	1.96		mg/L	1	07/01/11 10:49 AM
Surr: Isopropylbenzene	89.2	0	70 - 130		%REC	1	07/01/11 10:49 AM
Surr: Octacosane	104	0	70 - 130		%REC	1	07/01/11 10:49 AM
Total Mercury: Aqueous		SW7470A					Analyst: LM
Mercury	ND	0.0000800	0.000200		mg/L	1	07/07/11 11:57 AM
Trace Metals: ICP-MS - Water		SW6020					Analyst: AJR
Arsenic	ND	0.00200	0.00600		mg/L	1	07/05/11 07:35 PM
Barium	0.216	0.00300	0.0100		mg/L	1	07/05/11 07:35 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	07/05/11 07:35 PM
Chromium	ND	0.00200	0.00600		mg/L	1	07/05/11 07:35 PM
Lead	0.000443	0.000300	0.00100	J	mg/L	1	07/05/11 07:35 PM
Selenium	ND	0.00200	0.00600		mg/L	1	07/05/11 07:35 PM
Silver	ND	0.00100	0.00200		mg/L	1	07/05/11 07:35 PM
Volatiles by GC/MS		SW8260C					Analyst: KL
1,1,1,2-Tetrachloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:02 PM
1,1,1-Trichloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:02 PM
1,1,2,2-Tetrachloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:02 PM
1,1,2-Trichloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:02 PM
1,1-Dichloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:02 PM
1,1-Dichloroethene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:02 PM
1,1-Dichloropropene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:02 PM
1,2,3-Trichlorobenzene	ND	0.00200	0.00500		mg/L	1	07/05/11 01:02 PM
1,2,3-Trichloropropane	ND	0.000300	0.00100		mg/L	1	07/05/11 01:02 PM
1,2,4-Trichlorobenzene	ND	0.00200	0.00500		mg/L	1	07/05/11 01:02 PM
1,2,4-Trimethylbenzene	ND	0.00200	0.00500		mg/L	1	07/05/11 01:02 PM
1,2-Dibromo-3-chloropropane	ND	0.00300	0.0100		mg/L	1	07/05/11 01:02 PM
1,2-Dibromoethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:02 PM
1,2-Dichlorobenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:02 PM
1,2-Dichloroethane	ND	0.000300	0.00100		mg/L	1	07/05/11 01:02 PM
1,2-Dichloropropane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:02 PM
1,3,5-Trimethylbenzene	ND	0.00200	0.00500		mg/L	1	07/05/11 01:02 PM
1,3-Dichlorobenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:02 PM
1,3-Dichloropropane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:02 PM
1,4-Dichlorobenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:02 PM
2,2-Dichloropropane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:02 PM
2-Butanone	ND	0.00500	0.0150		mg/L	1	07/05/11 01:02 PM
2-Chloroethylvinylether	ND	0.00500	0.0150		mg/L	1	07/05/11 01:02 PM
2-Chlorotoluene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:02 PM
2-Hexanone	ND	0.00500	0.0150		mg/L	1	07/05/11 01:02 PM
4-Chlorotoluene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:02 PM
4-Methyl-2-pentanone	ND	0.00500	0.0150		mg/L	1	07/05/11 01:02 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

DHL Analytical

Date: 07/12/11

CLIENT: Baer Engineering
Project: USACE 1201 E 11TH
Project No: 112011.01
Lab Order: 1107006

Client Sample ID: TMW-2
Lab ID: 1107006-02
Collection Date: 06/29/11 11:15 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Acetone	ND	0.00500	0.0150		mg/L	1	07/05/11 01:02 PM
Benzene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:02 PM
Bromobenzene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:02 PM
Bromoform	ND	0.000200	0.00100		mg/L	1	07/05/11 01:02 PM
Bromomethane	ND	0.000300	0.00100		mg/L	1	07/05/11 01:02 PM
Carbon disulfide	ND	0.00500	0.0150		mg/L	1	07/05/11 01:02 PM
Carbon tetrachloride	ND	0.000200	0.00100		mg/L	1	07/05/11 01:02 PM
Chlorobenzene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:02 PM
Chloroethane	ND	0.000300	0.00100		mg/L	1	07/05/11 01:02 PM
Chloroform	ND	0.000300	0.00100		mg/L	1	07/05/11 01:02 PM
Chloromethane	ND	0.000300	0.00100		mg/L	1	07/05/11 01:02 PM
cis-1,2-Dichloroethene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:02 PM
cis-1,3-Dichloropropene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:02 PM
Dibromochloromethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:02 PM
Dibromomethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:02 PM
Dichlorodifluoromethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:02 PM
Ethylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:02 PM
Hexachlorobutadiene	ND	0.00100	0.00300		mg/L	1	07/05/11 01:02 PM
Iodomethane	ND	0.00500	0.0150		mg/L	1	07/05/11 01:02 PM
Isopropylbenzene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:02 PM
m,p-Xylene	ND	0.000600	0.00200		mg/L	1	07/05/11 01:02 PM
Methyl tert-butyl ether	ND	0.000300	0.00100		mg/L	1	07/05/11 01:02 PM
Methylene chloride	ND	0.00250	0.00250		mg/L	1	07/05/11 01:02 PM
n-Butylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:02 PM
n-Propylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:02 PM
Naphthalene	ND	0.00500	0.00500		mg/L	1	07/05/11 01:02 PM
o-Xylene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:02 PM
p-Isopropyltoluene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:02 PM
sec-Butylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:02 PM
Styrene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:02 PM
tert-Butylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:02 PM
Tetrachloroethene	ND	0.000700	0.00200		mg/L	1	07/05/11 01:02 PM
Toluene	ND	0.000700	0.00200		mg/L	1	07/05/11 01:02 PM
trans-1,2-Dichloroethene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:02 PM
trans-1,3-Dichloropropene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:02 PM
Trichloroethene	ND	0.000700	0.00200		mg/L	1	07/05/11 01:02 PM
Trichlorofluoromethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:02 PM
Vinyl chloride	ND	0.000100	0.00100		mg/L	1	07/05/11 01:02 PM
Surr: 1,2-Dichloroethane-d4	93.9	0	72 - 119		%REC	1	07/05/11 01:02 PM
Surr: 4-Bromofluorobenzene	93.4	0	76 - 119		%REC	1	07/05/11 01:02 PM
Surr: Dibromofluoromethane	94.8	0	85 - 115		%REC	1	07/05/11 01:02 PM
Surr: Toluene-d8	96.2	0	81 - 120		%REC	1	07/05/11 01:02 PM

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- B Analyte detected in the associated Method Blank
- C Sample Result or QC discussed in the Case Narrative
- DF Dilution Factor
- E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
MDL Method Detection Limit
N Parameter not NELAC certified
ND Not Detected at the Method Detection Limit
RL Reporting Limit
S Spike Recovery outside control limits

CLIENT: Baer Engineering
Project: USACE 1201 E 11TH
Project No: 112011.01
Lab Order: 1107006

Client Sample ID: B1-17
Lab ID: 1107006-03
Collection Date: 06/29/11 01:30 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Tx1005 TPH Soil		TX1005					Analyst: DEW
T/R Hydrocarbons: C6-C12	55.1	9.45	27.0		mg/Kg-dry	1	07/01/11 02:42 PM
T/R Hydrocarbons: >C12-C28	14.1	9.45	27.0	J	mg/Kg-dry	1	07/01/11 02:42 PM
T/R Hydrocarbons: >C28-C35	ND	9.45	27.0		mg/Kg-dry	1	07/01/11 02:42 PM
T/R Hydrocarbons: C6-C35	69.2	9.45	27.0		mg/Kg-dry	1	07/01/11 02:42 PM
Surr: Isopropylbenzene	92.6	0	70 - 130		%REC	1	07/01/11 02:42 PM
Surr: Octacosane	94.5	0	70 - 130		%REC	1	07/01/11 02:42 PM
Total Mercury: Soil/Solid		SW7471B					Analyst: LM
Mercury	0.0204	0.0200	0.0500	J	mg/Kg-dry	1	07/06/11 12:14 PM
Trace Metals: ICP-MS - Solid		SW6020					Analyst: CZ
Arsenic	2.74	0.619	1.24		mg/Kg-dry	5	07/05/11 06:54 PM
Barium	119	0.619	2.47		mg/Kg-dry	5	07/05/11 06:54 PM
Cadmium	0.407	0.124	0.371		mg/Kg-dry	5	07/05/11 06:54 PM
Chromium	16.7	0.619	2.47		mg/Kg-dry	5	07/05/11 06:54 PM
Lead	14.1	0.124	0.371		mg/Kg-dry	5	07/05/11 06:54 PM
Selenium	1.27	0.186	0.619		mg/Kg-dry	5	07/05/11 06:54 PM
Silver	ND	0.124	0.247		mg/Kg-dry	5	07/05/11 06:54 PM
Volatiles by GC/MS		SW8260C					Analyst: KL
1,1,1,2-Tetrachloroethane	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
1,1,1-Trichloroethane	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
1,1,2,2-Tetrachloroethane	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
1,1,2-Trichloroethane	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
1,1-Dichloroethane	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
1,1-Dichloroethene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
1,1-Dichloropropene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
1,2,3-Trichlorobenzene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
1,2,3-Trichloropropane	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
1,2,4-Trichlorobenzene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
1,2,4-Trimethylbenzene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
1,2-Dibromo-3-chloropropane	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
1,2-Dibromoethane	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
1,2-Dichlorobenzene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
1,2-Dichloroethane	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
1,2-Dichloropropane	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
1,3,5-Trimethylbenzene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
1,3-Dichlorobenzene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
1,3-Dichloropropane	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
1,4-Dichlorobenzene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
2,2-Dichloropropane	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
2-Butanone	ND	0.00541	0.0162		mg/Kg-dry	1	07/01/11 03:41 PM
2-Chloroethylvinylether	ND	0.00541	0.0162		mg/Kg-dry	1	07/01/11 03:41 PM
2-Chlorotoluene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
2-Hexanone	ND	0.00541	0.0162		mg/Kg-dry	1	07/01/11 03:41 PM
4-Chlorotoluene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
4-Methyl-2-pentanone	ND	0.00541	0.0162		mg/Kg-dry	1	07/01/11 03:41 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

CLIENT: Baer Engineering
Project: USACE 1201 E 11TH
Project No: 112011.01
Lab Order: 1107006

Client Sample ID: B1-17
Lab ID: 1107006-03
Collection Date: 06/29/11 01:30 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Acetone	ND	0.0162	0.0541		mg/Kg-dry	1	07/01/11 03:41 PM
Benzene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
Bromobenzene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
Bromoform	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
Bromochloromethane	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
Bromodichloromethane	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
Bromomethane	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
Carbon disulfide	ND	0.00541	0.0162		mg/Kg-dry	1	07/01/11 03:41 PM
Carbon tetrachloride	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
Chlorobenzene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
Chloroethane	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
Chloroform	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
Chloromethane	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
cis-1,2-Dichloroethene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
cis-1,3-Dichloropropene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
Dibromochloromethane	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
Dibromomethane	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
Dichlorodifluoromethane	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
Ethylbenzene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
Hexachlorobutadiene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
Iodomethane	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
Isopropylbenzene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
m,p-Xylene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
Methyl tert-butyl ether	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
Methylene chloride	ND	0.00541	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
n-Butylbenzene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
n-Propylbenzene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
Naphthalene	ND	0.00541	0.0162		mg/Kg-dry	1	07/01/11 03:41 PM
o-Xylene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
p-Isopropyltoluene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
sec-Butylbenzene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
Styrene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
tert-Butylbenzene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
Tetrachloroethene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
Toluene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
trans-1,2-Dichloroethene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
trans-1,3-Dichloropropene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
Trichloroethene	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
Trichlorofluoromethane	ND	0.00541	0.0162		mg/Kg-dry	1	07/01/11 03:41 PM
Vinyl chloride	ND	0.00108	0.00541		mg/Kg-dry	1	07/01/11 03:41 PM
Surr: 1,2-Dichloroethane-d4	94.5	0	52 - 149		%REC	1	07/01/11 03:41 PM
Surr: 4-Bromofluorobenzene	177	0	84 - 118	S	%REC	1	07/01/11 03:41 PM
Surr: Dibromofluoromethane	98.5	0	65 - 135		%REC	1	07/01/11 03:41 PM
Surr: Toluene-d8	76.7	0	84 - 116	S	%REC	1	07/01/11 03:41 PM

Percent Moisture**D2216****Analyst: JCG**

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

DHL Analytical

Date: 07/12/11

CLIENT: Baer Engineering
Project: USACE 1201 E 11TH
Project No: 112011.01
Lab Order: 1107006

Client Sample ID: B1-17
Lab ID: 1107006-03
Collection Date: 06/29/11 01:30 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Percent Moisture	27.2	0	0		WT%	1	07/06/11 08:45 AM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
B Analyte detected in the associated Method Blank
C Sample Result or QC discussed in the Case Narrative
DF Dilution Factor
E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
MDL Method Detection Limit
N Parameter not NELAC certified
ND Not Detected at the Method Detection Limit
RL Reporting Limit
S Spike Recovery outside control limits

CLIENT: Baer Engineering
Project: USACE 1201 E 11TH
Project No: 112011.01
Lab Order: 1107006

Client Sample ID: DUPLICATE
Lab ID: 1107006-04
Collection Date: 06/29/11 01:30 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Tx1005 TPH Soil		TX1005					Analyst: DEW
T/R Hydrocarbons: C6-C12	22.7	7.92	22.6		mg/Kg-dry	1	07/01/11 02:51 PM
T/R Hydrocarbons: >C12-C28	ND	7.92	22.6		mg/Kg-dry	1	07/01/11 02:51 PM
T/R Hydrocarbons: >C28-C35	ND	7.92	22.6		mg/Kg-dry	1	07/01/11 02:51 PM
T/R Hydrocarbons: C6-C35	22.7	7.92	22.6		mg/Kg-dry	1	07/01/11 02:51 PM
Surr: Isopropylbenzene	93.5	0	70 - 130	%REC	1		07/01/11 02:51 PM
Surr: Octacosane	96.3	0	70 - 130	%REC	1		07/01/11 02:51 PM
Total Mercury: Soil/Solid		SW7471B					Analyst: LM
Mercury	ND	0.0175	0.0437		mg/Kg-dry	1	07/06/11 12:16 PM
Trace Metals: ICP-MS - Solid		SW6020					Analyst: CZ
Arsenic	3.06	0.578	1.16		mg/Kg-dry	5	07/05/11 06:59 PM
Barium	120	0.578	2.31		mg/Kg-dry	5	07/05/11 06:59 PM
Cadmium	0.329	0.116	0.347	J	mg/Kg-dry	5	07/05/11 06:59 PM
Chromium	17.5	0.578	2.31		mg/Kg-dry	5	07/05/11 06:59 PM
Lead	10.7	0.116	0.347		mg/Kg-dry	5	07/05/11 06:59 PM
Selenium	1.33	0.173	0.578		mg/Kg-dry	5	07/05/11 06:59 PM
Silver	ND	0.116	0.231		mg/Kg-dry	5	07/05/11 06:59 PM
Volatiles by GC/MS		SW8260C					Analyst: KL
1,1,1,2-Tetrachloroethane	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
1,1,1-Trichloroethane	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
1,1,2,2-Tetrachloroethane	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
1,1,2-Trichloroethane	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
1,1-Dichloroethane	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
1,1-Dichloroethene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
1,1-Dichloropropene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
1,2,3-Trichlorobenzene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
1,2,3-Trichloropropane	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
1,2,4-Trichlorobenzene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
1,2,4-Trimethylbenzene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
1,2-Dibromo-3-chloropropane	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
1,2-Dibromoethane	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
1,2-Dichlorobenzene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
1,2-Dichloroethane	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
1,2-Dichloropropane	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
1,3,5-Trimethylbenzene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
1,3-Dichlorobenzene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
1,3-Dichloropropane	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
1,4-Dichlorobenzene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
2,2-Dichloropropane	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
2-Butanone	ND	0.00583	0.0175		mg/Kg-dry	1	07/01/11 04:12 PM
2-Chloroethylvinylether	ND	0.00583	0.0175		mg/Kg-dry	1	07/01/11 04:12 PM
2-Chlorotoluene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
2-Hexanone	ND	0.00583	0.0175		mg/Kg-dry	1	07/01/11 04:12 PM
4-Chlorotoluene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
4-Methyl-2-pentanone	ND	0.00583	0.0175		mg/Kg-dry	1	07/01/11 04:12 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

DHL Analytical

Date: 07/12/11

CLIENT: Baer Engineering
Project: USACE 1201 E 11TH
Project No: 112011.01
Lab Order: 1107006

Client Sample ID: DUPLICATE
Lab ID: 1107006-04
Collection Date: 06/29/11 01:30 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Acetone	ND	0.0175	0.0583		mg/Kg-dry	1	07/01/11 04:12 PM
Benzene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
Bromobenzene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
Bromoform	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
Bromochloromethane	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
Bromodichloromethane	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
Bromomethane	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
Carbon disulfide	ND	0.00583	0.0175		mg/Kg-dry	1	07/01/11 04:12 PM
Carbon tetrachloride	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
Chlorobenzene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
Chloroethane	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
Chloroform	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
Chloromethane	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
cis-1,2-Dichloroethene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
cis-1,3-Dichloropropene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
Dibromochloromethane	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
Dibromomethane	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
Dichlorodifluoromethane	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
Ethylbenzene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
Hexachlorobutadiene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
Iodomethane	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
Isopropylbenzene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
m,p-Xylene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
Methyl tert-butyl ether	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
Methylene chloride	ND	0.00583	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
n-Butylbenzene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
n-Propylbenzene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
Naphthalene	ND	0.00583	0.0175		mg/Kg-dry	1	07/01/11 04:12 PM
o-Xylene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
p-Isopropyltoluene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
sec-Butylbenzene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
Styrene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
tert-Butylbenzene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
Tetrachloroethene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
Toluene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
trans-1,2-Dichloroethene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
trans-1,3-Dichloropropene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
Trichloroethene	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
Trichlorofluoromethane	ND	0.00583	0.0175		mg/Kg-dry	1	07/01/11 04:12 PM
Vinyl chloride	ND	0.00117	0.00583		mg/Kg-dry	1	07/01/11 04:12 PM
Surr: 1,2-Dichloroethane-d4	96.0	0	52 - 149		%REC	1	07/01/11 04:12 PM
Surr: 4-Bromofluorobenzene	126	0	84 - 118	S	%REC	1	07/01/11 04:12 PM
Surr: Dibromofluoromethane	102	0	65 - 135		%REC	1	07/01/11 04:12 PM
Surr: Toluene-d8	92.6	0	84 - 116		%REC	1	07/01/11 04:12 PM

Percent Moisture

D2216

Analyst: JCG

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

DHL Analytical

Date: 07/12/11

CLIENT: Baer Engineering
Project: USACE 1201 E 11TH
Project No: 112011.01
Lab Order: 1107006

Client Sample ID: DUPLICATE
Lab ID: 1107006-04
Collection Date: 06/29/11 01:30 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Percent Moisture	16.8	0	0		WT%	1	07/06/11 08:45 AM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
B Analyte detected in the associated Method Blank
C Sample Result or QC discussed in the Case Narrative
DF Dilution Factor
E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
MDL Method Detection Limit
N Parameter not NELAC certified
ND Not Detected at the Method Detection Limit
RL Reporting Limit
S Spike Recovery outside control limits

CLIENT: Baer Engineering
Project: USACE 1201 E 11TH
Project No: 112011.01
Lab Order: 1107006

Client Sample ID: TMW-1
Lab ID: 1107006-05
Collection Date: 06/29/11 02:30 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Tx1005 TPH Water		TX1005					Analyst: DEW
T/R Hydrocarbons: C6-C12	ND	0.681	1.95		mg/L	1	07/01/11 10:58 AM
T/R Hydrocarbons: >C12-C28	4.55	0.681	1.95		mg/L	1	07/01/11 10:58 AM
T/R Hydrocarbons: >C28-C35	ND	0.681	1.95		mg/L	1	07/01/11 10:58 AM
T/R Hydrocarbons: C6-C35	4.55	0.681	1.95		mg/L	1	07/01/11 10:58 AM
Surr: Isopropylbenzene	89.4	0	70 - 130		%REC	1	07/01/11 10:58 AM
Surr: Octacosane	101	0	70 - 130		%REC	1	07/01/11 10:58 AM
Total Mercury: Aqueous		SW7470A					Analyst: LM
Mercury	ND	0.0000800	0.000200		mg/L	1	07/07/11 11:59 AM
Trace Metals: ICP-MS - Water		SW6020					Analyst: AJR
Arsenic	ND	0.00200	0.00600		mg/L	1	07/05/11 07:19 PM
Barium	0.139	0.00300	0.0100		mg/L	1	07/05/11 07:19 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	07/05/11 07:19 PM
Chromium	ND	0.00200	0.00600		mg/L	1	07/05/11 07:19 PM
Lead	0.000618	0.000300	0.00100	J	mg/L	1	07/05/11 07:19 PM
Selenium	0.00234	0.00200	0.00600	J	mg/L	1	07/05/11 07:19 PM
Silver	ND	0.00100	0.00200		mg/L	1	07/05/11 07:19 PM
Volatiles by GC/MS		SW8260C					Analyst: KL
1,1,1,2-Tetrachloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:28 PM
1,1,1-Trichloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:28 PM
1,1,2,2-Tetrachloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:28 PM
1,1,2-Trichloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:28 PM
1,1-Dichloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:28 PM
1,1-Dichloroethene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:28 PM
1,1-Dichloropropene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:28 PM
1,2,3-Trichlorobenzene	ND	0.00200	0.00500		mg/L	1	07/05/11 01:28 PM
1,2,3-Trichloropropane	ND	0.000300	0.00100		mg/L	1	07/05/11 01:28 PM
1,2,4-Trichlorobenzene	ND	0.00200	0.00500		mg/L	1	07/05/11 01:28 PM
1,2,4-Trimethylbenzene	ND	0.00200	0.00500		mg/L	1	07/05/11 01:28 PM
1,2-Dibromo-3-chloropropane	ND	0.00300	0.0100		mg/L	1	07/05/11 01:28 PM
1,2-Dibromoethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:28 PM
1,2-Dichlorobenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:28 PM
1,2-Dichloroethane	ND	0.000300	0.00100		mg/L	1	07/05/11 01:28 PM
1,2-Dichloropropane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:28 PM
1,3,5-Trimethylbenzene	ND	0.00200	0.00500		mg/L	1	07/05/11 01:28 PM
1,3-Dichlorobenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:28 PM
1,3-Dichloropropane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:28 PM
1,4-Dichlorobenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:28 PM
2,2-Dichloropropane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:28 PM
2-Butanone	ND	0.00500	0.0150		mg/L	1	07/05/11 01:28 PM
2-Chloroethylvinylether	ND	0.00500	0.0150		mg/L	1	07/05/11 01:28 PM
2-Chlorotoluene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:28 PM
2-Hexanone	ND	0.00500	0.0150		mg/L	1	07/05/11 01:28 PM
4-Chlorotoluene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:28 PM
4-Methyl-2-pentanone	ND	0.00500	0.0150		mg/L	1	07/05/11 01:28 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

DHL Analytical

Date: 07/12/11

CLIENT: Baer Engineering
Project: USACE 1201 E 11TH
Project No: 112011.01
Lab Order: 1107006

Client Sample ID: TMW-1
Lab ID: 1107006-05
Collection Date: 06/29/11 02:30 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Acetone	0.0149	0.00500	0.0150	J	mg/L	1	07/05/11 01:28 PM
Benzene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:28 PM
Bromobenzene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:28 PM
Bromoform	ND	0.000200	0.00100		mg/L	1	07/05/11 01:28 PM
Bromomethane	ND	0.000300	0.00100		mg/L	1	07/05/11 01:28 PM
Carbon disulfide	ND	0.00500	0.0150		mg/L	1	07/05/11 01:28 PM
Carbon tetrachloride	ND	0.000200	0.00100		mg/L	1	07/05/11 01:28 PM
Chlorobenzene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:28 PM
Chloroethane	ND	0.000300	0.00100		mg/L	1	07/05/11 01:28 PM
Chloroform	ND	0.000300	0.00100		mg/L	1	07/05/11 01:28 PM
Chloromethane	ND	0.000300	0.00100		mg/L	1	07/05/11 01:28 PM
cis-1,2-Dichloroethene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:28 PM
cis-1,3-Dichloropropene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:28 PM
Dibromochloromethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:28 PM
Dibromomethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:28 PM
Dichlorodifluoromethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:28 PM
Ethylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:28 PM
Hexachlorobutadiene	ND	0.00100	0.00300		mg/L	1	07/05/11 01:28 PM
Iodomethane	ND	0.00500	0.0150		mg/L	1	07/05/11 01:28 PM
Isopropylbenzene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:28 PM
m,p-Xylene	ND	0.000600	0.00200		mg/L	1	07/05/11 01:28 PM
Methyl tert-butyl ether	ND	0.000300	0.00100		mg/L	1	07/05/11 01:28 PM
Methylene chloride	ND	0.00250	0.00250		mg/L	1	07/05/11 01:28 PM
n-Butylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:28 PM
n-Propylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:28 PM
Naphthalene	ND	0.00500	0.00500		mg/L	1	07/05/11 01:28 PM
o-Xylene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:28 PM
p-Isopropyltoluene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:28 PM
sec-Butylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:28 PM
Styrene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:28 PM
tert-Butylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:28 PM
Tetrachloroethene	ND	0.000700	0.00200		mg/L	1	07/05/11 01:28 PM
Toluene	ND	0.000700	0.00200		mg/L	1	07/05/11 01:28 PM
trans-1,2-Dichloroethene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:28 PM
trans-1,3-Dichloropropene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:28 PM
Trichloroethene	ND	0.000700	0.00200		mg/L	1	07/05/11 01:28 PM
Trichlorofluoromethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:28 PM
Vinyl chloride	ND	0.000100	0.00100		mg/L	1	07/05/11 01:28 PM
Surr: 1,2-Dichloroethane-d4	93.0	0	72 - 119		%REC	1	07/05/11 01:28 PM
Surr: 4-Bromofluorobenzene	93.6	0	76 - 119		%REC	1	07/05/11 01:28 PM
Surr: Dibromofluoromethane	94.6	0	85 - 115		%REC	1	07/05/11 01:28 PM
Surr: Toluene-d8	96.3	0	81 - 120		%REC	1	07/05/11 01:28 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

CLIENT: Baer Engineering
Project: USACE 1201 E 11TH
Project No: 112011.01
Lab Order: 1107006

Client Sample ID: B3-15
Lab ID: 1107006-06
Collection Date: 06/30/11 12:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Tx1005 TPH Soil		TX1005					Analyst: DEW
T/R Hydrocarbons: C6-C12	ND	7.49	21.4		mg/Kg-dry	1	07/01/11 03:00 PM
T/R Hydrocarbons: >C12-C28	ND	7.49	21.4		mg/Kg-dry	1	07/01/11 03:00 PM
T/R Hydrocarbons: >C28-C35	ND	7.49	21.4		mg/Kg-dry	1	07/01/11 03:00 PM
T/R Hydrocarbons: C6-C35	ND	7.49	21.4		mg/Kg-dry	1	07/01/11 03:00 PM
Surr: Isopropylbenzene	91.8	0	70 - 130		%REC	1	07/01/11 03:00 PM
Surr: Octacosane	97.3	0	70 - 130		%REC	1	07/01/11 03:00 PM
Volatile Organics by GC		SW8021B					Analyst: DEW
Methyl tert-butyl ether	ND	0.00505	0.0151		mg/Kg-dry	1	07/01/11 03:53 PM
Benzene	ND	0.00303	0.00505		mg/Kg-dry	1	07/01/11 03:53 PM
Toluene	ND	0.00505	0.0151		mg/Kg-dry	1	07/01/11 03:53 PM
Ethylbenzene	ND	0.00505	0.0151		mg/Kg-dry	1	07/01/11 03:53 PM
Xylenes, Total	ND	0.00505	0.0151		mg/Kg-dry	1	07/01/11 03:53 PM
Surr: Tetrachloroethene	108	0	79 - 135		%REC	1	07/01/11 03:53 PM
Total Mercury: Soil/Solid		SW7471B					Analyst: LM
Mercury	ND	0.0169	0.0422		mg/Kg-dry	1	07/06/11 12:18 PM
Trace Metals: ICP-MS - Solid		SW6020					Analyst: CZ
Arsenic	3.48	0.511	1.02		mg/Kg-dry	5	07/05/11 07:05 PM
Barium	492	0.511	2.04		mg/Kg-dry	5	07/05/11 07:05 PM
Cadmium	0.257	0.102	0.306	J	mg/Kg-dry	5	07/05/11 07:05 PM
Chromium	6.52	0.511	2.04		mg/Kg-dry	5	07/05/11 07:05 PM
Lead	3.99	0.102	0.306		mg/Kg-dry	5	07/05/11 07:05 PM
Selenium	0.653	0.153	0.511		mg/Kg-dry	5	07/05/11 07:05 PM
Silver	ND	0.102	0.204		mg/Kg-dry	5	07/05/11 07:05 PM
Percent Moisture		D2216					Analyst: JCG
Percent Moisture	6.77	0	0		WT%	1	07/06/11 08:45 AM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

CLIENT: Baer Engineering
Project: USACE 1201 E 11TH
Project No: 112011.01
Lab Order: 1107006

Client Sample ID: TMW-3
Lab ID: 1107006-07
Collection Date: 06/30/11 12:45 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Tx1005 TPH Water		TX1005					Analyst: DEW
T/R Hydrocarbons: C6-C12	ND	0.679	1.94		mg/L	1	07/01/11 11:07 AM
T/R Hydrocarbons: >C12-C28	3.98	0.679	1.94		mg/L	1	07/01/11 11:07 AM
T/R Hydrocarbons: >C28-C35	0.709	0.679	1.94	J	mg/L	1	07/01/11 11:07 AM
T/R Hydrocarbons: C6-C35	4.69	0.679	1.94		mg/L	1	07/01/11 11:07 AM
Surr: Isopropylbenzene	90.3	0	70 - 130		%REC	1	07/01/11 11:07 AM
Surr: Octacosane	103	0	70 - 130		%REC	1	07/01/11 11:07 AM
Total Mercury: Aqueous		SW7470A					Analyst: LM
Mercury	ND	0.0000800	0.000200		mg/L	1	07/07/11 11:43 AM
Trace Metals: ICP-MS - Water		SW6020					Analyst: AJR
Arsenic	ND	0.00200	0.00600		mg/L	1	07/05/11 07:41 PM
Barium	0.123	0.00300	0.0100		mg/L	1	07/05/11 07:41 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	07/05/11 07:41 PM
Chromium	ND	0.00200	0.00600		mg/L	1	07/05/11 07:41 PM
Lead	ND	0.000300	0.00100		mg/L	1	07/05/11 07:41 PM
Selenium	0.00411	0.00200	0.00600	J	mg/L	1	07/05/11 07:41 PM
Silver	ND	0.00100	0.00200		mg/L	1	07/05/11 07:41 PM
Volatiles by GC/MS		SW8260C					Analyst: KL
1,1,1,2-Tetrachloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:53 PM
1,1,1-Trichloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:53 PM
1,1,2,2-Tetrachloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:53 PM
1,1,2-Trichloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:53 PM
1,1-Dichloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:53 PM
1,1-Dichloroethene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:53 PM
1,1-Dichloropropene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:53 PM
1,2,3-Trichlorobenzene	ND	0.00200	0.00500		mg/L	1	07/05/11 01:53 PM
1,2,3-Trichloropropane	ND	0.000300	0.00100		mg/L	1	07/05/11 01:53 PM
1,2,4-Trichlorobenzene	ND	0.00200	0.00500		mg/L	1	07/05/11 01:53 PM
1,2,4-Trimethylbenzene	ND	0.00200	0.00500		mg/L	1	07/05/11 01:53 PM
1,2-Dibromo-3-chloropropane	ND	0.00300	0.0100		mg/L	1	07/05/11 01:53 PM
1,2-Dibromoethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:53 PM
1,2-Dichlorobenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:53 PM
1,2-Dichloroethane	ND	0.000300	0.00100		mg/L	1	07/05/11 01:53 PM
1,2-Dichloropropane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:53 PM
1,3,5-Trimethylbenzene	ND	0.00200	0.00500		mg/L	1	07/05/11 01:53 PM
1,3-Dichlorobenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:53 PM
1,3-Dichloropropane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:53 PM
1,4-Dichlorobenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:53 PM
2,2-Dichloropropane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:53 PM
2-Butanone	ND	0.00500	0.0150		mg/L	1	07/05/11 01:53 PM
2-Chloroethylvinylether	ND	0.00500	0.0150		mg/L	1	07/05/11 01:53 PM
2-Chlorotoluene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:53 PM
2-Hexanone	ND	0.00500	0.0150		mg/L	1	07/05/11 01:53 PM
4-Chlorotoluene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:53 PM
4-Methyl-2-pentanone	ND	0.00500	0.0150		mg/L	1	07/05/11 01:53 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

CLIENT: Baer Engineering
Project: USACE 1201 E 11TH
Project No: 112011.01
Lab Order: 1107006

Client Sample ID: TMW-3
Lab ID: 1107006-07
Collection Date: 06/30/11 12:45 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Acetone	ND	0.00500	0.0150		mg/L	1	07/05/11 01:53 PM
Benzene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:53 PM
Bromobenzene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:53 PM
Bromoform	ND	0.000200	0.00100		mg/L	1	07/05/11 01:53 PM
Bromomethane	ND	0.000300	0.00100		mg/L	1	07/05/11 01:53 PM
Carbon disulfide	ND	0.00500	0.0150		mg/L	1	07/05/11 01:53 PM
Carbon tetrachloride	ND	0.000200	0.00100		mg/L	1	07/05/11 01:53 PM
Chlorobenzene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:53 PM
Chloroethane	ND	0.000300	0.00100		mg/L	1	07/05/11 01:53 PM
Chloroform	ND	0.000300	0.00100		mg/L	1	07/05/11 01:53 PM
Chloromethane	ND	0.000300	0.00100		mg/L	1	07/05/11 01:53 PM
cis-1,2-Dichloroethene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:53 PM
cis-1,3-Dichloropropene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:53 PM
Dibromochloromethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:53 PM
Dibromomethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:53 PM
Dichlorodifluoromethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:53 PM
Ethylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:53 PM
Hexachlorobutadiene	ND	0.00100	0.00300		mg/L	1	07/05/11 01:53 PM
Iodomethane	ND	0.00500	0.0150		mg/L	1	07/05/11 01:53 PM
Isopropylbenzene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:53 PM
m,p-Xylene	ND	0.000600	0.00200		mg/L	1	07/05/11 01:53 PM
Methyl tert-butyl ether	ND	0.000300	0.00100		mg/L	1	07/05/11 01:53 PM
Methylene chloride	ND	0.00250	0.00250		mg/L	1	07/05/11 01:53 PM
n-Butylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:53 PM
n-Propylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:53 PM
Naphthalene	ND	0.00500	0.00500		mg/L	1	07/05/11 01:53 PM
o-Xylene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:53 PM
p-Isopropyltoluene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:53 PM
sec-Butylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:53 PM
Styrene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:53 PM
tert-Butylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 01:53 PM
Tetrachloroethene	ND	0.000700	0.00200		mg/L	1	07/05/11 01:53 PM
Toluene	ND	0.000700	0.00200		mg/L	1	07/05/11 01:53 PM
trans-1,2-Dichloroethene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:53 PM
trans-1,3-Dichloropropene	ND	0.000200	0.00100		mg/L	1	07/05/11 01:53 PM
Trichloroethene	ND	0.000700	0.00200		mg/L	1	07/05/11 01:53 PM
Trichlorofluoromethane	ND	0.000200	0.00100		mg/L	1	07/05/11 01:53 PM
Vinyl chloride	ND	0.000100	0.00100		mg/L	1	07/05/11 01:53 PM
Surr: 1,2-Dichloroethane-d4	94.2	0	72 - 119		%REC	1	07/05/11 01:53 PM
Surr: 4-Bromofluorobenzene	93.4	0	76 - 119		%REC	1	07/05/11 01:53 PM
Surr: Dibromofluoromethane	96.2	0	85 - 115		%REC	1	07/05/11 01:53 PM
Surr: Toluene-d8	95.6	0	81 - 120		%REC	1	07/05/11 01:53 PM

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- B Analyte detected in the associated Method Blank
- C Sample Result or QC discussed in the Case Narrative
- DF Dilution Factor
- E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
MDL Method Detection Limit
N Parameter not NELAC certified
ND Not Detected at the Method Detection Limit
RL Reporting Limit
S Spike Recovery outside control limits

CLIENT: Baer Engineering
Project: USACE 1201 E 11TH
Project No: 112011.01
Lab Order: 1107006

Client Sample ID: B4-15
Lab ID: 1107006-08
Collection Date: 06/30/11 02:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Tx1005 TPH Soil		TX1005					Analyst: DEW
T/R Hydrocarbons: C6-C12	ND	7.83	22.4		mg/Kg-dry	1	07/01/11 03:08 PM
T/R Hydrocarbons: >C12-C28	ND	7.83	22.4		mg/Kg-dry	1	07/01/11 03:08 PM
T/R Hydrocarbons: >C28-C35	ND	7.83	22.4		mg/Kg-dry	1	07/01/11 03:08 PM
T/R Hydrocarbons: C6-C35	ND	7.83	22.4		mg/Kg-dry	1	07/01/11 03:08 PM
Surr: Isopropylbenzene	91.4	0	70 - 130		%REC	1	07/01/11 03:08 PM
Surr: Octacosane	93.7	0	70 - 130		%REC	1	07/01/11 03:08 PM
Volatile Organics by GC		SW8021B					Analyst: DEW
Methyl tert-butyl ether	ND	0.00550	0.0165		mg/Kg-dry	1	07/01/11 04:19 PM
Benzene	ND	0.00330	0.00550		mg/Kg-dry	1	07/01/11 04:19 PM
Toluene	ND	0.00550	0.0165		mg/Kg-dry	1	07/01/11 04:19 PM
Ethylbenzene	ND	0.00550	0.0165		mg/Kg-dry	1	07/01/11 04:19 PM
Xylenes, Total	ND	0.00550	0.0165		mg/Kg-dry	1	07/01/11 04:19 PM
Surr: Tetrachloroethene	98.0	0	79 - 135		%REC	1	07/01/11 04:19 PM
Total Mercury: Soil/Solid		SW7471B					Analyst: LM
Mercury	0.0106	0.00914	0.0228	J	mg/Kg-dry	1	07/06/11 12:20 PM
Trace Metals: ICP-MS - Solid		SW6020					Analyst: CZ
Arsenic	4.23	0.280	0.560		mg/Kg-dry	5	07/05/11 07:11 PM
Barium	49.0	0.280	1.12		mg/Kg-dry	5	07/05/11 07:11 PM
Cadmium	0.279	0.0560	0.168		mg/Kg-dry	5	07/05/11 07:11 PM
Chromium	7.47	0.280	1.12		mg/Kg-dry	5	07/05/11 07:11 PM
Lead	3.66	0.0560	0.168		mg/Kg-dry	5	07/05/11 07:11 PM
Selenium	0.570	0.0840	0.280		mg/Kg-dry	5	07/05/11 07:11 PM
Silver	ND	0.0560	0.112		mg/Kg-dry	5	07/05/11 07:11 PM
Percent Moisture		D2216					Analyst: JCG
Percent Moisture	12.9	0	0		WT%	1	07/06/11 08:45 AM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

CLIENT: Baer Engineering
Project: USACE 1201 E 11TH
Project No: 112011.01
Lab Order: 1107006

Client Sample ID: TMW-4
Lab ID: 1107006-09
Collection Date: 06/30/11 04:00 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Tx1005 TPH Water		TX1005					Analyst: DEW
T/R Hydrocarbons: C6-C12	ND	0.659	1.88		mg/L	1	07/01/11 11:16 AM
T/R Hydrocarbons: >C12-C28	2.99	0.659	1.88		mg/L	1	07/01/11 11:16 AM
T/R Hydrocarbons: >C28-C35	ND	0.659	1.88		mg/L	1	07/01/11 11:16 AM
T/R Hydrocarbons: C6-C35	2.99	0.659	1.88		mg/L	1	07/01/11 11:16 AM
Surr: Isopropylbenzene	90.8	0	70 - 130		%REC	1	07/01/11 11:16 AM
Surr: Octacosane	98.4	0	70 - 130		%REC	1	07/01/11 11:16 AM
Total Mercury: Aqueous		SW7470A					Analyst: LM
Mercury	ND	0.0000800	0.000200		mg/L	1	07/07/11 12:01 PM
Trace Metals: ICP-MS - Water		SW6020					Analyst: AJR
Arsenic	ND	0.00200	0.00600		mg/L	1	07/05/11 07:46 PM
Barium	0.128	0.00300	0.0100		mg/L	1	07/05/11 07:46 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	07/05/11 07:46 PM
Chromium	ND	0.00200	0.00600		mg/L	1	07/05/11 07:46 PM
Lead	0.000823	0.000300	0.00100	J	mg/L	1	07/05/11 07:46 PM
Selenium	0.00381	0.00200	0.00600	J	mg/L	1	07/05/11 07:46 PM
Silver	ND	0.00100	0.00200		mg/L	1	07/05/11 07:46 PM
Volatiles by GC/MS		SW8260C					Analyst: KL
1,1,1,2-Tetrachloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 02:18 PM
1,1,1-Trichloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 02:18 PM
1,1,2,2-Tetrachloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 02:18 PM
1,1,2-Trichloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 02:18 PM
1,1-Dichloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 02:18 PM
1,1-Dichloroethene	ND	0.000200	0.00100		mg/L	1	07/05/11 02:18 PM
1,1-Dichloropropene	ND	0.000200	0.00100		mg/L	1	07/05/11 02:18 PM
1,2,3-Trichlorobenzene	ND	0.00200	0.00500		mg/L	1	07/05/11 02:18 PM
1,2,3-Trichloropropane	ND	0.000300	0.00100		mg/L	1	07/05/11 02:18 PM
1,2,4-Trichlorobenzene	ND	0.00200	0.00500		mg/L	1	07/05/11 02:18 PM
1,2,4-Trimethylbenzene	ND	0.00200	0.00500		mg/L	1	07/05/11 02:18 PM
1,2-Dibromo-3-chloropropane	ND	0.00300	0.0100		mg/L	1	07/05/11 02:18 PM
1,2-Dibromoethane	ND	0.000200	0.00100		mg/L	1	07/05/11 02:18 PM
1,2-Dichlorobenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 02:18 PM
1,2-Dichloroethane	ND	0.000300	0.00100		mg/L	1	07/05/11 02:18 PM
1,2-Dichloropropane	ND	0.000200	0.00100		mg/L	1	07/05/11 02:18 PM
1,3,5-Trimethylbenzene	ND	0.00200	0.00500		mg/L	1	07/05/11 02:18 PM
1,3-Dichlorobenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 02:18 PM
1,3-Dichloropropane	ND	0.000200	0.00100		mg/L	1	07/05/11 02:18 PM
1,4-Dichlorobenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 02:18 PM
2,2-Dichloropropane	ND	0.000200	0.00100		mg/L	1	07/05/11 02:18 PM
2-Butanone	ND	0.00500	0.0150		mg/L	1	07/05/11 02:18 PM
2-Chloroethylvinylether	ND	0.00500	0.0150		mg/L	1	07/05/11 02:18 PM
2-Chlorotoluene	ND	0.000300	0.00100		mg/L	1	07/05/11 02:18 PM
2-Hexanone	ND	0.00500	0.0150		mg/L	1	07/05/11 02:18 PM
4-Chlorotoluene	ND	0.000300	0.00100		mg/L	1	07/05/11 02:18 PM
4-Methyl-2-pentanone	ND	0.00500	0.0150		mg/L	1	07/05/11 02:18 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

DHL Analytical

Date: 07/12/11

CLIENT: Baer Engineering
Project: USACE 1201 E 11TH
Project No: 112011.01
Lab Order: 1107006

Client Sample ID: TMW-4
Lab ID: 1107006-09
Collection Date: 06/30/11 04:00 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Acetone	ND	0.00500	0.0150		mg/L	1	07/05/11 02:18 PM
Benzene	ND	0.000200	0.00100		mg/L	1	07/05/11 02:18 PM
Bromobenzene	ND	0.000200	0.00100		mg/L	1	07/05/11 02:18 PM
Bromoform	ND	0.000200	0.00100		mg/L	1	07/05/11 02:18 PM
Bromomethane	ND	0.000300	0.00100		mg/L	1	07/05/11 02:18 PM
Carbon disulfide	ND	0.00500	0.0150		mg/L	1	07/05/11 02:18 PM
Carbon tetrachloride	ND	0.000200	0.00100		mg/L	1	07/05/11 02:18 PM
Chlorobenzene	ND	0.000200	0.00100		mg/L	1	07/05/11 02:18 PM
Chloroethane	ND	0.000300	0.00100		mg/L	1	07/05/11 02:18 PM
Chloroform	0.000900	0.000300	0.00100	J	mg/L	1	07/05/11 02:18 PM
Chloromethane	ND	0.000300	0.00100		mg/L	1	07/05/11 02:18 PM
cis-1,2-Dichloroethene	ND	0.000200	0.00100		mg/L	1	07/05/11 02:18 PM
cis-1,3-Dichloropropene	ND	0.000200	0.00100		mg/L	1	07/05/11 02:18 PM
Dibromochloromethane	ND	0.000200	0.00100		mg/L	1	07/05/11 02:18 PM
Dibromomethane	ND	0.000200	0.00100		mg/L	1	07/05/11 02:18 PM
Dichlorodifluoromethane	ND	0.000200	0.00100		mg/L	1	07/05/11 02:18 PM
Ethylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 02:18 PM
Hexachlorobutadiene	ND	0.00100	0.00300		mg/L	1	07/05/11 02:18 PM
Iodomethane	ND	0.00500	0.0150		mg/L	1	07/05/11 02:18 PM
Isopropylbenzene	ND	0.000200	0.00100		mg/L	1	07/05/11 02:18 PM
m,p-Xylene	ND	0.000600	0.00200		mg/L	1	07/05/11 02:18 PM
Methyl tert-butyl ether	ND	0.000300	0.00100		mg/L	1	07/05/11 02:18 PM
Methylene chloride	ND	0.00250	0.00250		mg/L	1	07/05/11 02:18 PM
n-Butylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 02:18 PM
n-Propylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 02:18 PM
Naphthalene	ND	0.00500	0.00500		mg/L	1	07/05/11 02:18 PM
o-Xylene	ND	0.000300	0.00100		mg/L	1	07/05/11 02:18 PM
p-Isopropyltoluene	ND	0.000300	0.00100		mg/L	1	07/05/11 02:18 PM
sec-Butylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 02:18 PM
Styrene	ND	0.000200	0.00100		mg/L	1	07/05/11 02:18 PM
tert-Butylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 02:18 PM
Tetrachloroethene	ND	0.000700	0.00200		mg/L	1	07/05/11 02:18 PM
Toluene	ND	0.000700	0.00200		mg/L	1	07/05/11 02:18 PM
trans-1,2-Dichloroethene	ND	0.000200	0.00100		mg/L	1	07/05/11 02:18 PM
trans-1,3-Dichloropropene	ND	0.000200	0.00100		mg/L	1	07/05/11 02:18 PM
Trichloroethene	ND	0.000700	0.00200		mg/L	1	07/05/11 02:18 PM
Trichlorofluoromethane	ND	0.000200	0.00100		mg/L	1	07/05/11 02:18 PM
Vinyl chloride	ND	0.000100	0.00100		mg/L	1	07/05/11 02:18 PM
Surr: 1,2-Dichloroethane-d4	93.4	0	72 - 119		%REC	1	07/05/11 02:18 PM
Surr: 4-Bromofluorobenzene	93.2	0	76 - 119		%REC	1	07/05/11 02:18 PM
Surr: Dibromofluoromethane	94.6	0	85 - 115		%REC	1	07/05/11 02:18 PM
Surr: Toluene-d8	96.0	0	81 - 120		%REC	1	07/05/11 02:18 PM

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- B Analyte detected in the associated Method Blank
- C Sample Result or QC discussed in the Case Narrative
- DF Dilution Factor
- E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
MDL Method Detection Limit
N Parameter not NELAC certified
ND Not Detected at the Method Detection Limit
RL Reporting Limit
S Spike Recovery outside control limits

CLIENT: Baer Engineering
Project: USACE 1201 E 11TH
Project No: 112011.01
Lab Order: 1107006

Client Sample ID: B5-16
Lab ID: 1107006-10
Collection Date: 06/30/11 05:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Tx1005 TPH Soil		TX1005					Analyst: DEW
T/R Hydrocarbons: C6-C12	ND	7.43	21.2		mg/Kg-dry	1	07/01/11 03:17 PM
T/R Hydrocarbons: >C12-C28	ND	7.43	21.2		mg/Kg-dry	1	07/01/11 03:17 PM
T/R Hydrocarbons: >C28-C35	ND	7.43	21.2		mg/Kg-dry	1	07/01/11 03:17 PM
T/R Hydrocarbons: C6-C35	ND	7.43	21.2		mg/Kg-dry	1	07/01/11 03:17 PM
Surr: Isopropylbenzene	89.2	0	70 - 130		%REC	1	07/01/11 03:17 PM
Surr: Octacosane	92.5	0	70 - 130		%REC	1	07/01/11 03:17 PM
Volatile Organics by GC		SW8021B					Analyst: DEW
Methyl tert-butyl ether	ND	0.00540	0.0162		mg/Kg-dry	1	07/01/11 05:35 PM
Benzene	ND	0.00324	0.00540		mg/Kg-dry	1	07/01/11 05:35 PM
Toluene	ND	0.00540	0.0162		mg/Kg-dry	1	07/01/11 05:35 PM
Ethylbenzene	ND	0.00540	0.0162		mg/Kg-dry	1	07/01/11 05:35 PM
Xylenes, Total	ND	0.00540	0.0162		mg/Kg-dry	1	07/01/11 05:35 PM
Surr: Tetrachloroethene	105	0	79 - 135		%REC	1	07/01/11 05:35 PM
Total Mercury: Soil/Solid		SW7471B					Analyst: LM
Mercury	ND	0.00874	0.0219		mg/Kg-dry	1	07/06/11 12:22 PM
Trace Metals: ICP-MS - Solid		SW6020					Analyst: CZ
Arsenic	1.07	0.271	0.541		mg/Kg-dry	5	07/05/11 07:17 PM
Barium	18.9	0.271	1.08		mg/Kg-dry	5	07/05/11 07:17 PM
Cadmium	0.0746	0.0541	0.162	J	mg/Kg-dry	5	07/05/11 07:17 PM
Chromium	2.72	0.271	1.08		mg/Kg-dry	5	07/05/11 07:17 PM
Lead	1.32	0.0541	0.162		mg/Kg-dry	5	07/05/11 07:17 PM
Selenium	0.296	0.0812	0.271		mg/Kg-dry	5	07/05/11 07:17 PM
Silver	ND	0.0541	0.108		mg/Kg-dry	5	07/05/11 07:17 PM
Percent Moisture		D2216					Analyst: JCG
Percent Moisture	9.02	0	0		WT%	1	07/06/11 08:45 AM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

CLIENT: Baer Engineering
Project: USACE 1201 E 11TH
Project No: 112011.01
Lab Order: 1107006

Client Sample ID: TMW-5
Lab ID: 1107006-11
Collection Date: 06/30/11 06:30 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Tx1005 TPH Water		TX1005					Analyst: DEW
T/R Hydrocarbons: C6-C12	ND	0.684	1.96		mg/L	1	07/01/11 11:25 AM
T/R Hydrocarbons: >C12-C28	3.18	0.684	1.96		mg/L	1	07/01/11 11:25 AM
T/R Hydrocarbons: >C28-C35	0.767	0.684	1.96	J	mg/L	1	07/01/11 11:25 AM
T/R Hydrocarbons: C6-C35	3.95	0.684	1.96		mg/L	1	07/01/11 11:25 AM
Surr: Isopropylbenzene	89.7	0	70 - 130		%REC	1	07/01/11 11:25 AM
Surr: Octacosane	103	0	70 - 130		%REC	1	07/01/11 11:25 AM
Total Mercury: Aqueous		SW7470A					Analyst: LM
Mercury	ND	0.0000800	0.000200		mg/L	1	07/07/11 12:03 PM
Trace Metals: ICP-MS - Water		SW6020					Analyst: AJR
Arsenic	ND	0.00200	0.00600		mg/L	1	07/05/11 07:52 PM
Barium	0.172	0.00300	0.0100		mg/L	1	07/05/11 07:52 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	07/05/11 07:52 PM
Chromium	ND	0.00200	0.00600		mg/L	1	07/05/11 07:52 PM
Lead	ND	0.000300	0.00100		mg/L	1	07/05/11 07:52 PM
Selenium	0.00332	0.00200	0.00600	J	mg/L	1	07/05/11 07:52 PM
Silver	ND	0.00100	0.00200		mg/L	1	07/05/11 07:52 PM
Volatiles by GC/MS		SW8260C					Analyst: KL
1,1,1,2-Tetrachloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 02:44 PM
1,1,1-Trichloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 02:44 PM
1,1,2,2-Tetrachloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 02:44 PM
1,1,2-Trichloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 02:44 PM
1,1-Dichloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 02:44 PM
1,1-Dichloroethene	ND	0.000200	0.00100		mg/L	1	07/05/11 02:44 PM
1,1-Dichloropropene	ND	0.000200	0.00100		mg/L	1	07/05/11 02:44 PM
1,2,3-Trichlorobenzene	ND	0.00200	0.00500		mg/L	1	07/05/11 02:44 PM
1,2,3-Trichloropropane	ND	0.000300	0.00100		mg/L	1	07/05/11 02:44 PM
1,2,4-Trichlorobenzene	ND	0.00200	0.00500		mg/L	1	07/05/11 02:44 PM
1,2,4-Trimethylbenzene	ND	0.00200	0.00500		mg/L	1	07/05/11 02:44 PM
1,2-Dibromo-3-chloropropane	ND	0.00300	0.0100		mg/L	1	07/05/11 02:44 PM
1,2-Dibromoethane	ND	0.000200	0.00100		mg/L	1	07/05/11 02:44 PM
1,2-Dichlorobenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 02:44 PM
1,2-Dichloroethane	ND	0.000300	0.00100		mg/L	1	07/05/11 02:44 PM
1,2-Dichloropropane	ND	0.000200	0.00100		mg/L	1	07/05/11 02:44 PM
1,3,5-Trimethylbenzene	ND	0.00200	0.00500		mg/L	1	07/05/11 02:44 PM
1,3-Dichlorobenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 02:44 PM
1,3-Dichloropropane	ND	0.000200	0.00100		mg/L	1	07/05/11 02:44 PM
1,4-Dichlorobenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 02:44 PM
2,2-Dichloropropane	ND	0.000200	0.00100		mg/L	1	07/05/11 02:44 PM
2-Butanone	ND	0.00500	0.0150		mg/L	1	07/05/11 02:44 PM
2-Chloroethylvinylether	ND	0.00500	0.0150		mg/L	1	07/05/11 02:44 PM
2-Chlorotoluene	ND	0.000300	0.00100		mg/L	1	07/05/11 02:44 PM
2-Hexanone	ND	0.00500	0.0150		mg/L	1	07/05/11 02:44 PM
4-Chlorotoluene	ND	0.000300	0.00100		mg/L	1	07/05/11 02:44 PM
4-Methyl-2-pentanone	ND	0.00500	0.0150		mg/L	1	07/05/11 02:44 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

DHL Analytical

Date: 07/12/11

CLIENT: Baer Engineering
Project: USACE 1201 E 11TH
Project No: 112011.01
Lab Order: 1107006

Client Sample ID: TMW-5
Lab ID: 1107006-11
Collection Date: 06/30/11 06:30 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Acetone	ND	0.00500	0.0150		mg/L	1	07/05/11 02:44 PM
Benzene	ND	0.000200	0.00100		mg/L	1	07/05/11 02:44 PM
Bromobenzene	ND	0.000200	0.00100		mg/L	1	07/05/11 02:44 PM
Bromoform	ND	0.000200	0.00100		mg/L	1	07/05/11 02:44 PM
Bromomethane	ND	0.000300	0.00100		mg/L	1	07/05/11 02:44 PM
Carbon disulfide	ND	0.00500	0.0150		mg/L	1	07/05/11 02:44 PM
Carbon tetrachloride	ND	0.000200	0.00100		mg/L	1	07/05/11 02:44 PM
Chlorobenzene	ND	0.000200	0.00100		mg/L	1	07/05/11 02:44 PM
Chloroethane	ND	0.000300	0.00100		mg/L	1	07/05/11 02:44 PM
Chloroform	0.000970	0.000300	0.00100	J	mg/L	1	07/05/11 02:44 PM
Chloromethane	ND	0.000300	0.00100		mg/L	1	07/05/11 02:44 PM
cis-1,2-Dichloroethene	ND	0.000200	0.00100		mg/L	1	07/05/11 02:44 PM
cis-1,3-Dichloropropene	ND	0.000200	0.00100		mg/L	1	07/05/11 02:44 PM
Dibromochloromethane	ND	0.000200	0.00100		mg/L	1	07/05/11 02:44 PM
Dibromomethane	ND	0.000200	0.00100		mg/L	1	07/05/11 02:44 PM
Dichlorodifluoromethane	ND	0.000200	0.00100		mg/L	1	07/05/11 02:44 PM
Ethylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 02:44 PM
Hexachlorobutadiene	ND	0.00100	0.00300		mg/L	1	07/05/11 02:44 PM
Iodomethane	ND	0.00500	0.0150		mg/L	1	07/05/11 02:44 PM
Isopropylbenzene	ND	0.000200	0.00100		mg/L	1	07/05/11 02:44 PM
m,p-Xylene	ND	0.000600	0.00200		mg/L	1	07/05/11 02:44 PM
Methyl tert-butyl ether	ND	0.000300	0.00100		mg/L	1	07/05/11 02:44 PM
Methylene chloride	ND	0.00250	0.00250		mg/L	1	07/05/11 02:44 PM
n-Butylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 02:44 PM
n-Propylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 02:44 PM
Naphthalene	ND	0.00500	0.00500		mg/L	1	07/05/11 02:44 PM
o-Xylene	ND	0.000300	0.00100		mg/L	1	07/05/11 02:44 PM
p-Isopropyltoluene	ND	0.000300	0.00100		mg/L	1	07/05/11 02:44 PM
sec-Butylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 02:44 PM
Styrene	ND	0.000200	0.00100		mg/L	1	07/05/11 02:44 PM
tert-Butylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 02:44 PM
Tetrachloroethene	ND	0.000700	0.00200		mg/L	1	07/05/11 02:44 PM
Toluene	ND	0.000700	0.00200		mg/L	1	07/05/11 02:44 PM
trans-1,2-Dichloroethene	ND	0.000200	0.00100		mg/L	1	07/05/11 02:44 PM
trans-1,3-Dichloropropene	ND	0.000200	0.00100		mg/L	1	07/05/11 02:44 PM
Trichloroethene	ND	0.000700	0.00200		mg/L	1	07/05/11 02:44 PM
Trichlorofluoromethane	ND	0.000200	0.00100		mg/L	1	07/05/11 02:44 PM
Vinyl chloride	ND	0.000100	0.00100		mg/L	1	07/05/11 02:44 PM
Surr: 1,2-Dichloroethane-d4	93.1	0	72 - 119		%REC	1	07/05/11 02:44 PM
Surr: 4-Bromofluorobenzene	93.7	0	76 - 119		%REC	1	07/05/11 02:44 PM
Surr: Dibromofluoromethane	94.3	0	85 - 115		%REC	1	07/05/11 02:44 PM
Surr: Toluene-d8	95.3	0	81 - 120		%REC	1	07/05/11 02:44 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

CLIENT: Baer Engineering
Project: USACE 1201 E 11TH
Project No: 112011.01
Lab Order: 1107006

Client Sample ID: DUPLICATE
Lab ID: 1107006-12
Collection Date: 06/29/11 02:30 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Tx1005 TPH Water		TX1005					Analyst: DEW
T/R Hydrocarbons: C6-C12	ND	0.693	1.98		mg/L	1	07/01/11 11:34 AM
T/R Hydrocarbons: >C12-C28	3.53	0.693	1.98		mg/L	1	07/01/11 11:34 AM
T/R Hydrocarbons: >C28-C35	ND	0.693	1.98		mg/L	1	07/01/11 11:34 AM
T/R Hydrocarbons: C6-C35	3.53	0.693	1.98		mg/L	1	07/01/11 11:34 AM
Surr: Isopropylbenzene	90.0	0	70 - 130		%REC	1	07/01/11 11:34 AM
Surr: Octacosane	99.3	0	70 - 130		%REC	1	07/01/11 11:34 AM
Total Mercury: Aqueous		SW7470A					Analyst: LM
Mercury	ND	0.0000800	0.000200		mg/L	1	07/07/11 12:06 PM
Trace Metals: ICP-MS - Water		SW6020					Analyst: AJR
Arsenic	ND	0.00200	0.00600		mg/L	1	07/05/11 07:57 PM
Barium	0.143	0.00300	0.0100		mg/L	1	07/05/11 07:57 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	07/05/11 07:57 PM
Chromium	ND	0.00200	0.00600		mg/L	1	07/05/11 07:57 PM
Lead	0.000517	0.000300	0.00100	J	mg/L	1	07/05/11 07:57 PM
Selenium	0.00203	0.00200	0.00600	J	mg/L	1	07/05/11 07:57 PM
Silver	ND	0.00100	0.00200		mg/L	1	07/05/11 07:57 PM
Volatiles by GC/MS		SW8260C					Analyst: KL
1,1,1,2-Tetrachloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 03:09 PM
1,1,1-Trichloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 03:09 PM
1,1,2,2-Tetrachloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 03:09 PM
1,1,2-Trichloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 03:09 PM
1,1-Dichloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 03:09 PM
1,1-Dichloroethene	ND	0.000200	0.00100		mg/L	1	07/05/11 03:09 PM
1,1-Dichloropropene	ND	0.000200	0.00100		mg/L	1	07/05/11 03:09 PM
1,2,3-Trichlorobenzene	ND	0.00200	0.00500		mg/L	1	07/05/11 03:09 PM
1,2,3-Trichloropropane	ND	0.000300	0.00100		mg/L	1	07/05/11 03:09 PM
1,2,4-Trichlorobenzene	ND	0.00200	0.00500		mg/L	1	07/05/11 03:09 PM
1,2,4-Trimethylbenzene	ND	0.00200	0.00500		mg/L	1	07/05/11 03:09 PM
1,2-Dibromo-3-chloropropane	ND	0.00300	0.0100		mg/L	1	07/05/11 03:09 PM
1,2-Dibromoethane	ND	0.000200	0.00100		mg/L	1	07/05/11 03:09 PM
1,2-Dichlorobenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 03:09 PM
1,2-Dichloroethane	ND	0.000300	0.00100		mg/L	1	07/05/11 03:09 PM
1,2-Dichloropropane	ND	0.000200	0.00100		mg/L	1	07/05/11 03:09 PM
1,3,5-Trimethylbenzene	ND	0.00200	0.00500		mg/L	1	07/05/11 03:09 PM
1,3-Dichlorobenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 03:09 PM
1,3-Dichloropropane	ND	0.000200	0.00100		mg/L	1	07/05/11 03:09 PM
1,4-Dichlorobenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 03:09 PM
2,2-Dichloropropane	ND	0.000200	0.00100		mg/L	1	07/05/11 03:09 PM
2-Butanone	ND	0.00500	0.0150		mg/L	1	07/05/11 03:09 PM
2-Chloroethylvinylether	ND	0.00500	0.0150		mg/L	1	07/05/11 03:09 PM
2-Chlorotoluene	ND	0.000300	0.00100		mg/L	1	07/05/11 03:09 PM
2-Hexanone	ND	0.00500	0.0150		mg/L	1	07/05/11 03:09 PM
4-Chlorotoluene	ND	0.000300	0.00100		mg/L	1	07/05/11 03:09 PM
4-Methyl-2-pentanone	ND	0.00500	0.0150		mg/L	1	07/05/11 03:09 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

CLIENT: Baer Engineering
Project: USACE 1201 E 11TH
Project No: 112011.01
Lab Order: 1107006

Client Sample ID: DUPLICATE
Lab ID: 1107006-12
Collection Date: 06/29/11 02:30 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Acetone	0.0154	0.00500	0.0150		mg/L	1	07/05/11 03:09 PM
Benzene	ND	0.000200	0.00100		mg/L	1	07/05/11 03:09 PM
Bromobenzene	ND	0.000200	0.00100		mg/L	1	07/05/11 03:09 PM
Bromochloromethane	ND	0.000200	0.00100		mg/L	1	07/05/11 03:09 PM
Bromodichloromethane	ND	0.000200	0.00100		mg/L	1	07/05/11 03:09 PM
Bromoform	ND	0.000200	0.00100		mg/L	1	07/05/11 03:09 PM
Bromomethane	ND	0.000300	0.00100		mg/L	1	07/05/11 03:09 PM
Carbon disulfide	ND	0.00500	0.0150		mg/L	1	07/05/11 03:09 PM
Carbon tetrachloride	ND	0.000200	0.00100		mg/L	1	07/05/11 03:09 PM
Chlorobenzene	ND	0.000200	0.00100		mg/L	1	07/05/11 03:09 PM
Chloroethane	ND	0.000300	0.00100		mg/L	1	07/05/11 03:09 PM
Chloroform	ND	0.000300	0.00100		mg/L	1	07/05/11 03:09 PM
Chloromethane	ND	0.000300	0.00100		mg/L	1	07/05/11 03:09 PM
cis-1,2-Dichloroethene	ND	0.000200	0.00100		mg/L	1	07/05/11 03:09 PM
cis-1,3-Dichloropropene	ND	0.000200	0.00100		mg/L	1	07/05/11 03:09 PM
Dibromochloromethane	ND	0.000200	0.00100		mg/L	1	07/05/11 03:09 PM
Dibromomethane	ND	0.000200	0.00100		mg/L	1	07/05/11 03:09 PM
Dichlorodifluoromethane	ND	0.000200	0.00100		mg/L	1	07/05/11 03:09 PM
Ethylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 03:09 PM
Hexachlorobutadiene	ND	0.00100	0.00300		mg/L	1	07/05/11 03:09 PM
Iodomethane	ND	0.00500	0.0150		mg/L	1	07/05/11 03:09 PM
Isopropylbenzene	ND	0.000200	0.00100		mg/L	1	07/05/11 03:09 PM
m,p-Xylene	ND	0.000600	0.00200		mg/L	1	07/05/11 03:09 PM
Methyl tert-butyl ether	ND	0.000300	0.00100		mg/L	1	07/05/11 03:09 PM
Methylene chloride	ND	0.00250	0.00250		mg/L	1	07/05/11 03:09 PM
n-Butylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 03:09 PM
n-Propylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 03:09 PM
Naphthalene	ND	0.00500	0.00500		mg/L	1	07/05/11 03:09 PM
o-Xylene	ND	0.000300	0.00100		mg/L	1	07/05/11 03:09 PM
p-Isopropyltoluene	ND	0.000300	0.00100		mg/L	1	07/05/11 03:09 PM
sec-Butylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 03:09 PM
Styrene	ND	0.000200	0.00100		mg/L	1	07/05/11 03:09 PM
tert-Butylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 03:09 PM
Tetrachloroethene	ND	0.000700	0.00200		mg/L	1	07/05/11 03:09 PM
Toluene	ND	0.000700	0.00200		mg/L	1	07/05/11 03:09 PM
trans-1,2-Dichloroethene	ND	0.000200	0.00100		mg/L	1	07/05/11 03:09 PM
trans-1,3-Dichloropropene	ND	0.000200	0.00100		mg/L	1	07/05/11 03:09 PM
Trichloroethene	ND	0.000700	0.00200		mg/L	1	07/05/11 03:09 PM
Trichlorofluoromethane	ND	0.000200	0.00100		mg/L	1	07/05/11 03:09 PM
Vinyl chloride	ND	0.000100	0.00100		mg/L	1	07/05/11 03:09 PM
Surr: 1,2-Dichloroethane-d4	93.2	0	72 - 119		%REC	1	07/05/11 03:09 PM
Surr: 4-Bromofluorobenzene	93.6	0	76 - 119		%REC	1	07/05/11 03:09 PM
Surr: Dibromofluoromethane	95.0	0	85 - 115		%REC	1	07/05/11 03:09 PM
Surr: Toluene-d8	95.5	0	81 - 120		%REC	1	07/05/11 03:09 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

CLIENT: Baer Engineering
Project: USACE 1201 E 11TH
Project No: 112011.01
Lab Order: 1107006

Client Sample ID: IDW
Lab ID: 1107006-13
Collection Date: 06/30/11 05:30 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Tx1005 TPH Soil	TX1005						Analyst: DEW
T/R Hydrocarbons: C6-C12	ND	7.34	21.0		mg/Kg-dry	1	07/01/11 03:26 PM
T/R Hydrocarbons: >C12-C28	ND	7.34	21.0		mg/Kg-dry	1	07/01/11 03:26 PM
T/R Hydrocarbons: >C28-C35	ND	7.34	21.0		mg/Kg-dry	1	07/01/11 03:26 PM
T/R Hydrocarbons: C6-C35	ND	7.34	21.0		mg/Kg-dry	1	07/01/11 03:26 PM
Surr: Isopropylbenzene	88.8	0	70 - 130		%REC	1	07/01/11 03:26 PM
Surr: Octacosane	92.8	0	70 - 130		%REC	1	07/01/11 03:26 PM
Volatile Organics by GC	SW8021B						Analyst: DEW
Methyl tert-butyl ether	ND	0.00485	0.0145		mg/Kg-dry	1	07/01/11 06:00 PM
Benzene	ND	0.00291	0.00485		mg/Kg-dry	1	07/01/11 06:00 PM
Toluene	ND	0.00485	0.0145		mg/Kg-dry	1	07/01/11 06:00 PM
Ethylbenzene	ND	0.00485	0.0145		mg/Kg-dry	1	07/01/11 06:00 PM
Xylenes, Total	ND	0.00485	0.0145		mg/Kg-dry	1	07/01/11 06:00 PM
Surr: Tetrachloroethene	98.3	0	79 - 135		%REC	1	07/01/11 06:00 PM
Trace Metals: ICP-MS - Solid	SW6020						Analyst: CZ
Lead	6.14	0.105	0.314		mg/Kg-dry	5	07/05/11 07:23 PM
Percent Moisture	D2216						Analyst: JCG
Percent Moisture	5.37	0	0		WT%	1	07/06/11 08:45 AM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

DHL Analytical

Date: 07/12/11

CLIENT: Baer Engineering
Project: USACE 1201 E 11TH
Project No: 112011.01
Lab Order: 1107006

Client Sample ID: Trip Blank
Lab ID: 1107006-14
Collection Date: 06/30/11
Matrix: Trip Blank

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Volatiles by GC/MS		SW8260C					Analyst: KL
1,1,1,2-Tetrachloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 12:37 PM
1,1,1-Trichloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 12:37 PM
1,1,2,2-Tetrachloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 12:37 PM
1,1,2-Trichloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 12:37 PM
1,1-Dichloroethane	ND	0.000200	0.00100		mg/L	1	07/05/11 12:37 PM
1,1-Dichloroethene	ND	0.000200	0.00100		mg/L	1	07/05/11 12:37 PM
1,1-Dichloropropene	ND	0.000200	0.00100		mg/L	1	07/05/11 12:37 PM
1,2,3-Trichlorobenzene	ND	0.00200	0.00500		mg/L	1	07/05/11 12:37 PM
1,2,3-Trichloropropane	ND	0.000300	0.00100		mg/L	1	07/05/11 12:37 PM
1,2,4-Trichlorobenzene	ND	0.00200	0.00500		mg/L	1	07/05/11 12:37 PM
1,2,4-Trimethylbenzene	ND	0.00200	0.00500		mg/L	1	07/05/11 12:37 PM
1,2-Dibromo-3-chloropropane	ND	0.00300	0.0100		mg/L	1	07/05/11 12:37 PM
1,2-Dibromoethane	ND	0.000200	0.00100		mg/L	1	07/05/11 12:37 PM
1,2-Dichlorobenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 12:37 PM
1,2-Dichloroethane	ND	0.000300	0.00100		mg/L	1	07/05/11 12:37 PM
1,2-Dichloropropane	ND	0.000200	0.00100		mg/L	1	07/05/11 12:37 PM
1,3,5-Trimethylbenzene	ND	0.00200	0.00500		mg/L	1	07/05/11 12:37 PM
1,3-Dichlorobenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 12:37 PM
1,3-Dichloropropane	ND	0.000200	0.00100		mg/L	1	07/05/11 12:37 PM
1,4-Dichlorobenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 12:37 PM
2,2-Dichloropropane	ND	0.000200	0.00100		mg/L	1	07/05/11 12:37 PM
2-Butanone	ND	0.00500	0.0150		mg/L	1	07/05/11 12:37 PM
2-Chloroethylvinylether	ND	0.00500	0.0150		mg/L	1	07/05/11 12:37 PM
2-Chlorotoluene	ND	0.000300	0.00100		mg/L	1	07/05/11 12:37 PM
2-Hexanone	ND	0.00500	0.0150		mg/L	1	07/05/11 12:37 PM
4-Chlorotoluene	ND	0.000300	0.00100		mg/L	1	07/05/11 12:37 PM
4-Methyl-2-pentanone	ND	0.00500	0.0150		mg/L	1	07/05/11 12:37 PM
Acetone	ND	0.00500	0.0150		mg/L	1	07/05/11 12:37 PM
Benzene	ND	0.000200	0.00100		mg/L	1	07/05/11 12:37 PM
Bromobenzene	ND	0.000200	0.00100		mg/L	1	07/05/11 12:37 PM
Bromochloromethane	ND	0.000200	0.00100		mg/L	1	07/05/11 12:37 PM
Bromodichloromethane	ND	0.000200	0.00100		mg/L	1	07/05/11 12:37 PM
Bromoform	ND	0.000200	0.00100		mg/L	1	07/05/11 12:37 PM
Bromomethane	ND	0.000300	0.00100		mg/L	1	07/05/11 12:37 PM
Carbon disulfide	ND	0.00500	0.0150		mg/L	1	07/05/11 12:37 PM
Carbon tetrachloride	ND	0.000200	0.00100		mg/L	1	07/05/11 12:37 PM
Chlorobenzene	ND	0.000200	0.00100		mg/L	1	07/05/11 12:37 PM
Chloroethane	ND	0.000300	0.00100		mg/L	1	07/05/11 12:37 PM
Chloroform	ND	0.000300	0.00100		mg/L	1	07/05/11 12:37 PM
Chloromethane	ND	0.000300	0.00100		mg/L	1	07/05/11 12:37 PM
cis-1,2-Dichloroethene	ND	0.000200	0.00100		mg/L	1	07/05/11 12:37 PM
cis-1,3-Dichloropropene	ND	0.000200	0.00100		mg/L	1	07/05/11 12:37 PM
Dibromochloromethane	ND	0.000200	0.00100		mg/L	1	07/05/11 12:37 PM
Dibromomethane	ND	0.000200	0.00100		mg/L	1	07/05/11 12:37 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

DHL Analytical

Date: 07/12/11

CLIENT: Baer Engineering
Project: USACE 1201 E 11TH
Project No: 112011.01
Lab Order: 1107006

Client Sample ID: Trip Blank
Lab ID: 1107006-14
Collection Date: 06/30/11
Matrix: Trip Blank

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	0.000200	0.00100		mg/L	1	07/05/11 12:37 PM
Ethylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 12:37 PM
Hexachlorobutadiene	ND	0.00100	0.00300		mg/L	1	07/05/11 12:37 PM
Iodomethane	ND	0.00500	0.0150		mg/L	1	07/05/11 12:37 PM
Isopropylbenzene	ND	0.000200	0.00100		mg/L	1	07/05/11 12:37 PM
m,p-Xylene	ND	0.000600	0.00200		mg/L	1	07/05/11 12:37 PM
Methyl tert-butyl ether	ND	0.000300	0.00100		mg/L	1	07/05/11 12:37 PM
Methylene chloride	ND	0.00250	0.00250		mg/L	1	07/05/11 12:37 PM
n-Butylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 12:37 PM
n-Propylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 12:37 PM
Naphthalene	ND	0.00500	0.00500		mg/L	1	07/05/11 12:37 PM
o-Xylene	ND	0.000300	0.00100		mg/L	1	07/05/11 12:37 PM
p-Isopropyltoluene	ND	0.000300	0.00100		mg/L	1	07/05/11 12:37 PM
sec-Butylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 12:37 PM
Styrene	ND	0.000200	0.00100		mg/L	1	07/05/11 12:37 PM
tert-Butylbenzene	ND	0.000300	0.00100		mg/L	1	07/05/11 12:37 PM
Tetrachloroethene	ND	0.000700	0.00200		mg/L	1	07/05/11 12:37 PM
Toluene	ND	0.000700	0.00200		mg/L	1	07/05/11 12:37 PM
trans-1,2-Dichloroethene	ND	0.000200	0.00100		mg/L	1	07/05/11 12:37 PM
trans-1,3-Dichloropropene	ND	0.000200	0.00100		mg/L	1	07/05/11 12:37 PM
Trichloroethene	ND	0.000700	0.00200		mg/L	1	07/05/11 12:37 PM
Trichlorofluoromethane	ND	0.000200	0.00100		mg/L	1	07/05/11 12:37 PM
Vinyl chloride	ND	0.000100	0.00100		mg/L	1	07/05/11 12:37 PM
Surr: 1,2-Dichloroethane-d4	92.8	0	72 - 119	%REC	1	07/05/11 12:37 PM	
Surr: 4-Bromofluorobenzene	93.3	0	76 - 119	%REC	1	07/05/11 12:37 PM	
Surr: Dibromofluoromethane	94.0	0	85 - 115	%REC	1	07/05/11 12:37 PM	
Surr: Toluene-d8	95.9	0	81 - 120	%REC	1	07/05/11 12:37 PM	

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

CLIENT: Baer Engineering
Work Order: 1107006
Project: USACE 1201 E 11TH

ANALYTICAL QC SUMMARY REPORT

RunID: GC12_110701A

Sample ID:	MB-47030	Batch ID:	47030		TestNo:	TX1005		Units:	mg/L	
SampType:	MBLK	Run ID:	GC12_110701A		Analysis Date:	07/01/11 09:37 AM		Prep Date:	07/01/11	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
T/R Hydrocarbons: C6-C12	ND	2.00								
T/R Hydrocarbons: >C12-C28	ND	2.00								
T/R Hydrocarbons: >C28-C35	ND	2.00								
T/R Hydrocarbons: C6-C35	ND	2.00								
Surr: Isopropylbenzene	2.30		2.500		92.1	70	130			
Surr: Octacosane	2.45		2.500		97.9	70	130			
Sample ID:	LCS-47030	Batch ID:	47030		TestNo:	TX1005		Units:	mg/L	
SampType:	LCS	Run ID:	GC12_110701A		Analysis Date:	07/01/11 09:46 AM		Prep Date:	07/01/11	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
T/R Hydrocarbons: C6-C35	25.1	2.00	25.00	0	101	75	125			
Surr: Isopropylbenzene	2.34		2.500		93.7	70	130			
Surr: Octacosane	2.48		2.500		99.2	70	130			
Sample ID:	LCSD-47030	Batch ID:	47030		TestNo:	TX1005		Units:	mg/L	
SampType:	LCSD	Run ID:	GC12_110701A		Analysis Date:	07/01/11 09:55 AM		Prep Date:	07/01/11	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
T/R Hydrocarbons: C6-C35	26.6	2.00	25.00	0	106	75	125	5.54	20	
Surr: Isopropylbenzene	2.40		2.500		95.9	70	130	0	0	
Surr: Octacosane	2.52		2.500		101	70	130	0	0	
Sample ID:	1106252-02BMS	Batch ID:	47030		TestNo:	TX1005		Units:	mg/L	
SampType:	MS	Run ID:	GC12_110701A		Analysis Date:	07/01/11 10:22 AM		Prep Date:	07/01/11	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
T/R Hydrocarbons: C6-C35	29.9	1.96	24.54	3.421	108	75	125			
Surr: Isopropylbenzene	2.29		2.454		93.4	70	130			
Surr: Octacosane	2.54		2.454		104	70	130			
Sample ID:	1106252-02BMSD	Batch ID:	47030		TestNo:	TX1005		Units:	mg/L	
SampType:	MSD	Run ID:	GC12_110701A		Analysis Date:	07/01/11 10:31 AM		Prep Date:	07/01/11	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
T/R Hydrocarbons: C6-C35	30.3	1.98	24.71	3.421	109	75	125	1.36	20	
Surr: Isopropylbenzene	2.36		2.471		95.5	70	130	0	0	
Surr: Octacosane	2.59		2.471		105	70	130	0	0	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Baer Engineering
Work Order: 1107006
Project: USACE 1201 E 11TH

ANALYTICAL QC SUMMARY REPORT
RunID: GC12_110701B

Sample ID:	MB-47034	Batch ID:	47034		TestNo:	TX1005		Units:	mg/Kg	
SampType:	MBLK	Run ID:	GC12_110701B		Analysis Date:	07/01/11 11:52 AM		Prep Date:	07/01/11	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
T/R Hydrocarbons: C6-C12	ND	20.0								
T/R Hydrocarbons: >C12-C28	ND	20.0								
T/R Hydrocarbons: >C28-C35	ND	20.0								
T/R Hydrocarbons: C6-C35	ND	20.0								
Surr: Isopropylbenzene	23.4		25.00		93.6	70	130			
Surr: Octacosane	23.3		25.00		93.3	70	130			
Sample ID:	LCS-47034	Batch ID:	47034		TestNo:	TX1005		Units:	mg/Kg	
SampType:	LCS	Run ID:	GC12_110701B		Analysis Date:	07/01/11 12:01 PM		Prep Date:	07/01/11	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
T/R Hydrocarbons: C6-C35	255	20.0	250.0	0	102	75	125			
Surr: Isopropylbenzene	22.2		25.00		88.6	70	130			
Surr: Octacosane	23.3		25.00		93.1	70	130			
Sample ID:	LCSD-47034	Batch ID:	47034		TestNo:	TX1005		Units:	mg/Kg	
SampType:	LCSD	Run ID:	GC12_110701B		Analysis Date:	07/01/11 12:09 PM		Prep Date:	07/01/11	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
T/R Hydrocarbons: C6-C35	240	20.0	250.0	0	96.1	75	125	6.03	50	
Surr: Isopropylbenzene	21.1		25.00		84.6	70	130	0	0	
Surr: Octacosane	21.9		25.00		87.8	70	130	0	0	
Sample ID:	1106248-01BMS	Batch ID:	47034		TestNo:	TX1005		Units:	mg/Kg-dry	
SampType:	MS	Run ID:	GC12_110701B		Analysis Date:	07/01/11 01:12 PM		Prep Date:	07/01/11	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
T/R Hydrocarbons: C6-C35	254	20.4	255.0	0	99.6	75	125			
Surr: Isopropylbenzene	23.1		25.50		90.5	70	130			
Surr: Octacosane	23.5		25.50		92.3	70	130			
Sample ID:	1106248-01BMSD	Batch ID:	47034		TestNo:	TX1005		Units:	mg/Kg-dry	
SampType:	MSD	Run ID:	GC12_110701B		Analysis Date:	07/01/11 01:21 PM		Prep Date:	07/01/11	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
T/R Hydrocarbons: C6-C35	253	20.1	251.3	0	101	75	125	0.264	50	
Surr: Isopropylbenzene	22.7		25.13		90.2	70	130	0	0	
Surr: Octacosane	23.5		25.13		93.5	70	130	0	0	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Baer Engineering
Work Order: 1107006
Project: USACE 1201 E 11TH

ANALYTICAL QC SUMMARY REPORT
RunID: GC4_110701A

Sample ID:	LCS-47046	Batch ID:	47046	TestNo:	SW8021B		Units:	mg/Kg		
SampType:	LCS	Run ID:	GC4_110701A	Analysis Date:	07/01/11 03:02 PM		Prep Date:	07/01/11		
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Methyl tert-butyl ether	0.0878	0.0150	0.1000	0	87.8	61	123			
Benzene	0.0881	0.00500	0.1000	0	88.1	65	113			
Toluene	0.0891	0.0150	0.1000	0	89.1	73	115			
Ethylbenzene	0.0910	0.0150	0.1000	0	91.0	74	118			
Xylenes, Total	0.279	0.0150	0.3000	0	93.1	73	119			
Surr: Tetrachloroethene	0.210		0.2000		105	79	135			
Sample ID:	MB-47046	Batch ID:	47046	TestNo:	SW8021B		Units:	mg/Kg		
SampType:	MBLK	Run ID:	GC4_110701A	Analysis Date:	07/01/11 03:27 PM		Prep Date:	07/01/11		
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Methyl tert-butyl ether	ND	0.0150								
Benzene	ND	0.00500								
Toluene	ND	0.0150								
Ethylbenzene	ND	0.0150								
Xylenes, Total	ND	0.0150								
Surr: Tetrachloroethene	0.211		0.2000		105	79	135			
Sample ID:	1107006-08AMS	Batch ID:	47046	TestNo:	SW8021B		Units:	mg/Kg-dry		
SampType:	MS	Run ID:	GC4_110701A	Analysis Date:	07/01/11 04:44 PM		Prep Date:	07/01/11		
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Methyl tert-butyl ether	0.0902	0.0163	0.1085	0	83.2	61	123			
Benzene	0.0948	0.00542	0.1085	0	87.4	65	113			
Toluene	0.0960	0.0163	0.1085	0	88.5	73	115			
Ethylbenzene	0.0973	0.0163	0.1085	0	89.7	74	118			
Xylenes, Total	0.301	0.0163	0.3255	0	92.6	73	119			
Surr: Tetrachloroethene	0.224		0.2170		103	79	135			
Sample ID:	1107006-08AMSD	Batch ID:	47046	TestNo:	SW8021B		Units:	mg/Kg-dry		
SampType:	MSD	Run ID:	GC4_110701A	Analysis Date:	07/01/11 05:10 PM		Prep Date:	07/01/11		
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Methyl tert-butyl ether	0.0961	0.0170	0.1132	0	84.9	61	123	6.28	30	
Benzene	0.0980	0.00566	0.1132	0	86.6	65	113	3.35	30	
Toluene	0.0993	0.0170	0.1132	0	87.7	73	115	3.35	30	
Ethylbenzene	0.101	0.0170	0.1132	0	89.0	74	118	3.40	30	
Xylenes, Total	0.311	0.0170	0.3396	0	91.5	73	119	3.08	30	
Surr: Tetrachloroethene	0.218		0.2264		96.3	79	135	0	0	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Baer Engineering
Work Order: 1107006
Project: USACE 1201 E 11TH

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_110706A

Sample ID:	MB-47023	Batch ID:	47023	TestNo:	SW7471B	Units:	mg/Kg			
SampType:	MBLK	Run ID:	CETAC_HG_110706A	Analysis Date:	07/06/11 11:16 AM	Prep Date:	07/05/11			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury	ND	0.0400								
Sample ID:	LCS-47023	Batch ID:	47023	TestNo:	SW7471B	Units:	mg/Kg			
SampType:	LCS	Run ID:	CETAC_HG_110706A	Analysis Date:	07/06/11 11:20 AM	Prep Date:	07/05/11			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury	0.221	0.0400	0.2000	0	110	85	115			
Sample ID:	LCSD-47023	Batch ID:	47023	TestNo:	SW7471B	Units:	mg/Kg			
SampType:	LCSD	Run ID:	CETAC_HG_110706A	Analysis Date:	07/06/11 11:22 AM	Prep Date:	07/05/11			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury	0.218	0.0400	0.2000	0	109	85	115	1.37	25	
Sample ID:	1106249-01B SD	Batch ID:	47023	TestNo:	SW7471B	Units:	mg/Kg-dry			
SampType:	SD	Run ID:	CETAC_HG_110706A	Analysis Date:	07/06/11 11:30 AM	Prep Date:	07/05/11			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury	0	0.203	0	0				0	10	
Sample ID:	1106249-01B PDS	Batch ID:	47023	TestNo:	SW7471B	Units:	mg/Kg-dry			
SampType:	PDS	Run ID:	CETAC_HG_110706A	Analysis Date:	07/06/11 11:32 AM	Prep Date:	07/05/11			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury	0.269	0.0407	0.2543	0	106	85	115			
Sample ID:	1106249-01B MS	Batch ID:	47023	TestNo:	SW7471B	Units:	mg/Kg-dry			
SampType:	MS	Run ID:	CETAC_HG_110706A	Analysis Date:	07/06/11 11:34 AM	Prep Date:	07/05/11			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury	0.224	0.0406	0.2029	0	110	80	120			
Sample ID:	1106249-01B MSD	Batch ID:	47023	TestNo:	SW7471B	Units:	mg/Kg-dry			
SampType:	MSD	Run ID:	CETAC_HG_110706A	Analysis Date:	07/06/11 11:41 AM	Prep Date:	07/05/11			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury	0.228	0.0411	0.2054	0	111	80	120	1.68	25	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Baer Engineering
Work Order: 1107006
Project: USACE 1201 E 11TH

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_110707A

Sample ID:	MB-47049	Batch ID:	47049	TestNo:	SW7470A	Units:	mg/L			
SampType:	MBLK	Run ID:	CETAC_HG_110707A	Analysis Date:	07/07/11 11:29 AM	Prep Date:	07/05/11			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury	ND	0.000200								
Sample ID:	LCS-47049	Batch ID:	47049	TestNo:	SW7470A	Units:	mg/L			
SampType:	LCS	Run ID:	CETAC_HG_110707A	Analysis Date:	07/07/11 11:35 AM	Prep Date:	07/05/11			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury	0.00205	0.000200	0.00200	0	103	85	115			
Sample ID:	LCSD-47049	Batch ID:	47049	TestNo:	SW7470A	Units:	mg/L			
SampType:	LCSD	Run ID:	CETAC_HG_110707A	Analysis Date:	07/07/11 11:37 AM	Prep Date:	07/05/11			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury	0.00209	0.000200	0.00200	0	104	85	115	1.93	15	
Sample ID:	1107006-07C SD	Batch ID:	47049	TestNo:	SW7470A	Units:	mg/L			
SampType:	SD	Run ID:	CETAC_HG_110707A	Analysis Date:	07/07/11 11:45 AM	Prep Date:	07/05/11			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury	0	0.00100	0	0				0	10	
Sample ID:	1107006-07C PDS	Batch ID:	47049	TestNo:	SW7470A	Units:	mg/L			
SampType:	PDS	Run ID:	CETAC_HG_110707A	Analysis Date:	07/07/11 11:47 AM	Prep Date:	07/05/11			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury	0.00276	0.000200	0.00250	0	110	85	115			
Sample ID:	1107006-07C MS	Batch ID:	47049	TestNo:	SW7470A	Units:	mg/L			
SampType:	MS	Run ID:	CETAC_HG_110707A	Analysis Date:	07/07/11 11:53 AM	Prep Date:	07/05/11			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury	0.00210	0.000200	0.00200	0	105	80	120			
Sample ID:	1107006-07C MSD	Batch ID:	47049	TestNo:	SW7470A	Units:	mg/L			
SampType:	MSD	Run ID:	CETAC_HG_110707A	Analysis Date:	07/07/11 11:55 AM	Prep Date:	07/05/11			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury	0.00215	0.000200	0.00200	0	108	80	120	2.35	15	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Baer Engineering
Work Order: 1107006
Project: USACE 1201 E 11TH

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_110705B

Sample ID:	LCS-47045	Batch ID:	47045	TestNo:	SW6020	Units:	mg/Kg			
SampType:	LCS	Run ID:	ICP-MS2_110705B	Analysis Date:	07/05/11 05:07 PM	Prep Date:	07/05/11			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	44.8	1.00	50.00	0	89.6	80	120			
Barium	49.2	2.00	50.00	0	98.4	80	120			
Cadmium	47.3	0.300	50.00	0	94.6	80	120			
Chromium	50.5	2.00	50.00	0	101	80	120			
Lead	49.4	0.300	50.00	0	98.8	80	120			
Selenium	44.6	0.500	50.00	0	89.3	80	120			
Silver	47.5	0.200	50.00	0	95.0	80	120			
Sample ID:	LCSD-47045	Batch ID:	47045	TestNo:	SW6020	Units:	mg/Kg			
SampType:	LCSD	Run ID:	ICP-MS2_110705B	Analysis Date:	07/05/11 05:13 PM	Prep Date:	07/05/11			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	45.5	1.00	50.00	0	91.0	80	120	1.61	20	
Barium	49.9	2.00	50.00	0	99.8	80	120	1.46	20	
Cadmium	47.9	0.300	50.00	0	95.9	80	120	1.31	20	
Chromium	52.1	2.00	50.00	0	104	80	120	3.17	20	
Lead	50.5	0.300	50.00	0	101	80	120	2.25	20	
Selenium	44.8	0.500	50.00	0	89.6	80	120	0.280	20	
Silver	47.9	0.200	50.00	0	95.8	80	120	0.891	20	
Sample ID:	1107006-01B SD	Batch ID:	47045	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	SD	Run ID:	ICP-MS2_110705B	Analysis Date:	07/05/11 05:49 PM	Prep Date:	07/05/11			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	4.33	5.54	0	3.886				10.9	10	R
Barium	79.1	11.1	0	72.59				8.59	10	
Cadmium	0	1.66	0	0.1309				0	10	
Chromium	10.2	11.1	0	8.328				20.6	10	R
Lead	4.87	1.66	0	4.627				5.13	10	
Selenium	0	2.77	0	0.6565				0	10	
Silver	0	1.11	0	0				0	10	
Sample ID:	1107006-01B PDS	Batch ID:	47045	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	PDS	Run ID:	ICP-MS2_110705B	Analysis Date:	07/05/11 05:55 PM	Prep Date:	07/05/11			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	51.0	1.11	55.35	3.886	85.0	75	125			
Barium	127	2.21	55.35	72.59	98.9	75	125			
Cadmium	48.2	0.332	55.35	0.1309	86.9	75	125			
Chromium	58.1	2.21	55.35	8.328	89.9	75	125			
Lead	57.6	0.332	55.35	4.627	95.8	75	125			
Selenium	47.0	0.554	55.35	0.6565	83.8	75	125			
Silver	51.3	0.221	55.35	0	92.6	75	125			
Sample ID:	1107006-01B MS	Batch ID:	47045	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	MS	Run ID:	ICP-MS2_110705B	Analysis Date:	07/05/11 06:01 PM	Prep Date:	07/05/11			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Baer Engineering
Work Order: 1107006
Project: USACE 1201 E 11TH

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_110705B

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	48.7	1.08	53.77	3.886	83.3	80	120			
Barium	116	2.15	53.77	72.59	80.0	80	120			
Cadmium	47.6	0.323	53.77	0.1309	88.3	80	120			
Chromium	56.6	2.15	53.77	8.328	89.8	80	120			
Lead	56.4	0.323	53.77	4.627	96.3	80	120			
Selenium	45.5	0.538	53.77	0.6565	83.3	80	120			
Silver	47.3	0.215	53.77	0	88.0	80	120			

Sample ID: 1107006-01B MSD **Batch ID:** 47045 **TestNo:** SW6020 **Units:** mg/Kg-dry
SampType: MSD **Run ID:** ICP-MS2_110705B **Analysis Date:** 07/05/11 06:06 PM **Prep Date:** 07/05/11

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	51.0	1.10	54.82	3.886	85.9	80	120	4.54	20	
Barium	120	2.19	54.82	72.59	86.8	80	120	3.86	20	
Cadmium	49.3	0.329	54.82	0.1309	89.7	80	120	3.49	20	
Chromium	61.1	2.19	54.82	8.328	96.3	80	120	7.64	20	
Lead	58.2	0.329	54.82	4.627	97.7	80	120	3.11	20	
Selenium	46.0	0.548	54.82	0.6565	82.8	80	120	1.27	20	
Silver	49.3	0.219	54.82	0	89.9	80	120	4.06	20	

Sample ID: MB-47045 **Batch ID:** 47045 **TestNo:** SW6020 **Units:** mg/Kg
SampType: MBLK **Run ID:** ICP-MS2_110705B **Analysis Date:** 07/05/11 06:48 PM **Prep Date:** 07/05/11

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	ND	1.00								
Barium	ND	2.00								
Cadmium	ND	0.300								
Chromium	ND	2.00								
Lead	0.133	0.300								
Selenium	ND	0.500								
Silver	ND	0.200								

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Baer Engineering
Work Order: 1107006
Project: USACE 1201 E 11TH

ANALYTICAL QC SUMMARY REPORT
RunID: ICP-MS3_110705A

Sample ID:	MB-47048	Batch ID:	47048	TestNo:	SW6020		Units:	mg/L		
SampType:	MBLK	Run ID:	ICP-MS3_110705A	Analysis Date:	07/05/11 06:57 PM		Prep Date:	07/05/11		
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	ND	0.00600								
Barium	ND	0.0100								
Cadmium	ND	0.00100								
Chromium	ND	0.00600								
Lead	ND	0.00100								
Selenium	ND	0.00600								
Silver	ND	0.00200								
Sample ID:	LCS-47048	Batch ID:	47048	TestNo:	SW6020		Units:	mg/L		
SampType:	LCS	Run ID:	ICP-MS3_110705A	Analysis Date:	07/05/11 07:03 PM		Prep Date:	07/05/11		
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	0.194	0.00600	0.200	0	96.8	80	120			
Barium	0.192	0.0100	0.200	0	95.8	80	120			
Cadmium	0.193	0.00100	0.200	0	96.6	80	120			
Chromium	0.192	0.00600	0.200	0	96.2	80	120			
Lead	0.201	0.00100	0.200	0	100	80	120			
Selenium	0.206	0.00600	0.200	0	103	80	120			
Silver	0.188	0.00200	0.200	0	94.1	80	120			
Sample ID:	LCSD-47048	Batch ID:	47048	TestNo:	SW6020		Units:	mg/L		
SampType:	LCSD	Run ID:	ICP-MS3_110705A	Analysis Date:	07/05/11 07:08 PM		Prep Date:	07/05/11		
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	0.195	0.00600	0.200	0	97.6	80	120	0.720	15	
Barium	0.194	0.0100	0.200	0	96.8	80	120	0.987	15	
Cadmium	0.193	0.00100	0.200	0	96.4	80	120	0.207	15	
Chromium	0.193	0.00600	0.200	0	96.6	80	120	0.415	15	
Lead	0.201	0.00100	0.200	0	101	80	120	0.099	15	
Selenium	0.206	0.00600	0.200	0	103	80	120	0.194	15	
Silver	0.190	0.00200	0.200	0	95.0	80	120	0.952	15	
Sample ID:	1107006-05C SD	Batch ID:	47048	TestNo:	SW6020		Units:	mg/L		
SampType:	SD	Run ID:	ICP-MS3_110705A	Analysis Date:	07/05/11 07:25 PM		Prep Date:	07/05/11		
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	0	0.0300	0	0				0	10	
Barium	0.138	0.0500	0	0.139				1.01	10	
Cadmium	0	0.00500	0	0				0	10	
Chromium	0	0.0300	0	0				0	10	
Lead	0	0.00500	0	0.000618				0	10	
Selenium	0	0.0300	0	0.00234				0	10	
Silver	0	0.0100	0	0				0	10	
Sample ID:	1107006-05C PDS	Batch ID:	47048	TestNo:	SW6020		Units:	mg/L		
SampType:	PDS	Run ID:	ICP-MS3_110705A	Analysis Date:	07/05/11 08:03 PM		Prep Date:	07/05/11		

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Baer Engineering
Work Order: 1107006
Project: USACE 1201 E 11TH

ANALYTICAL QC SUMMARY REPORT
RunID: ICP-MS3_110705A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	0.179	0.00600	0.200	0	89.6	75	125			
Barium	0.314	0.0100	0.200	0.139	87.2	75	125			
Cadmium	0.175	0.00100	0.200	0	87.4	75	125			
Chromium	0.188	0.00600	0.200	0	93.9	75	125			
Lead	0.192	0.00100	0.200	0.00061895.5		75	125			
Selenium	0.187	0.00600	0.200	0.00234	92.3	75	125			
Silver	0.190	0.00200	0.200	0	95.1	75	125			
Sample ID:	1107006-05C MS	Batch ID:	47048	TestNo:	SW6020			Units:	mg/L	
SampType:	MS	Run ID:	ICP-MS3_110705A	Analysis Date:	07/05/11 08:08 PM			Prep Date:	07/05/11	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	0.193	0.00600	0.200	0	96.6	80	120			
Barium	0.323	0.0100	0.200	0.139	92.0	80	120			
Cadmium	0.189	0.00100	0.200	0	94.3	80	120			
Chromium	0.198	0.00600	0.200	0	99.0	80	120			
Lead	0.203	0.00100	0.200	0.000618101		80	120			
Selenium	0.201	0.00600	0.200	0.00234	99.4	80	120			
Silver	0.179	0.00200	0.200	0	89.4	80	120			
Sample ID:	1107006-05C MSD	Batch ID:	47048	TestNo:	SW6020			Units:	mg/L	
SampType:	MSD	Run ID:	ICP-MS3_110705A	Analysis Date:	07/05/11 08:14 PM			Prep Date:	07/05/11	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	0.187	0.00600	0.200	0	93.7	80	120	3.00	15	
Barium	0.318	0.0100	0.200	0.139	89.6	80	120	1.50	15	
Cadmium	0.184	0.00100	0.200	0	92.0	80	120	2.41	15	
Chromium	0.189	0.00600	0.200	0	94.5	80	120	4.65	15	
Lead	0.199	0.00100	0.200	0.00061899.2		80	120	2.04	15	
Selenium	0.193	0.00600	0.200	0.00234	95.2	80	120	4.27	15	
Silver	0.175	0.00200	0.200	0	87.6	80	120	2.09	15	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Baer Engineering
Work Order: 1107006
Project: USACE 1201 E 11TH

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_110701A

Sample ID:	LCS-47036	Batch ID:	47036	TestNo:	SW8260C		Units:	mg/Kg			
SampType:	LCS	Run ID:	GCMS2_110701A	Analysis Date:	07/01/11 10:32 AM		Prep Date:	07/01/11			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane		0.0211	0.00500	0.0232	0	90.9	74	125			
1,1,1-Trichloroethane		0.0215	0.00500	0.0232	0	92.6	68	130			
1,1,2,2-Tetrachloroethane		0.0219	0.00500	0.0232	0	94.3	59	140			
1,1,2-Trichloroethane		0.0230	0.00500	0.0232	0	99.2	62	127			
1,1-Dichloroethane		0.0212	0.00500	0.0232	0	91.3	73	125			
1,1-Dichloroethene		0.0210	0.00500	0.0232	0	90.4	65	136			
1,1-Dichloropropene		0.0216	0.00500	0.0232	0	93.0	70	135			
1,2,3-Trichlorobenzene		0.0248	0.00500	0.0232	0	107	62	133			
1,2,3-Trichloropropane		0.0239	0.00500	0.0232	0	103	63	130			
1,2,4-Trichlorobenzene		0.0230	0.00500	0.0232	0	99.1	65	131			
1,2,4-Trimethylbenzene		0.0216	0.00500	0.0232	0	93.1	65	135			
1,2-Dibromo-3-chloropropane		0.0257	0.00500	0.0232	0	111	49	135			
1,2-Dibromoethane		0.0229	0.00500	0.0232	0	98.6	70	124			
1,2-Dichlorobenzene		0.0222	0.00500	0.0232	0	95.9	74	120			
1,2-Dichloroethane		0.0219	0.00500	0.0232	0	94.3	72	137			
1,2-Dichloropropane		0.0220	0.00500	0.0232	0	94.8	71	120			
1,3,5-Trimethylbenzene		0.0216	0.00500	0.0232	0	93.1	65	133			
1,3-Dichlorobenzene		0.0214	0.00500	0.0232	0	92.4	72	124			
1,3-Dichloropropane		0.0226	0.00500	0.0232	0	97.6	76	123			
1,4-Dichlorobenzene		0.0217	0.00500	0.0232	0	93.4	72	125			
2,2-Dichloropropane		0.0224	0.00500	0.0232	0	96.6	67	134			
2-Butanone		0.0624	0.0150	0.0580	0	108	60	135			
2-Chloroethylvinylether		0.0254	0.0150	0.0232	0	109	50	150			
2-Chlorotoluene		0.0220	0.00500	0.0232	0	94.8	69	128			
2-Hexanone		0.0651	0.0150	0.0580	0	112	50	150			
4-Chlorotoluene		0.0222	0.00500	0.0232	0	95.8	73	126			
4-Methyl-2-pentanone		0.0608	0.0150	0.0580	0	105	60	135			
Acetone		0.0579	0.0500	0.0580	0	99.8	40	141			
Benzene		0.0222	0.00500	0.0232	0	95.8	73	126			
Bromobenzene		0.0215	0.00500	0.0232	0	92.6	66	121			
Bromochloromethane		0.0222	0.00500	0.0232	0	95.5	71	127			
Bromodichloromethane		0.0220	0.00500	0.0232	0	94.8	72	128			
Bromoform		0.0216	0.00500	0.0232	0	93.2	66	137			
Bromomethane		0.0209	0.00500	0.0232	0	90.2	45	141			
Carbon disulfide		0.0223	0.0150	0.0232	0	96.1	50	150			
Carbon tetrachloride		0.0213	0.00500	0.0232	0	91.9	67	133			
Chlorobenzene		0.0218	0.00500	0.0232	0	93.8	75	123			
Chloroethane		0.0219	0.00500	0.0232	0	94.4	41	141			
Chloroform		0.0211	0.00500	0.0232	0	90.8	72	124			
Chloromethane		0.0210	0.00500	0.0232	0	90.7	51	129			
cis-1,2-Dichloroethene		0.0217	0.00500	0.0232	0	93.6	67	125			
cis-1,3-Dichloropropene		0.0223	0.00500	0.0232	0	96.3	72	126			
Dibromochloromethane		0.0222	0.00500	0.0232	0	95.9	66	130			
Dibromomethane		0.0233	0.00500	0.0232	0	100	73	128			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Baer Engineering
Work Order: 1107006
Project: USACE 1201 E 11TH

ANALYTICAL QC SUMMARY REPORT
RunID: GCMS2_110701A

Dichlorodifluoromethane	0.0206	0.00500	0.0232	0	88.9	34	136
Ethylbenzene	0.0215	0.00500	0.0232	0	92.8	74	127
Hexachlorobutadiene	0.0203	0.00500	0.0232	0	87.4	53	142
Iodomethane	0.0229	0.00500	0.0232	0	98.5	50	150
Isopropylbenzene	0.0216	0.00500	0.0232	0	93.0	77	129
m,p-Xylene	0.0438	0.00500	0.0464	0	94.3	79	126
Methyl tert-butyl ether	0.0228	0.00500	0.0232	0	98.1	50	135
Methylene chloride	0.0237	0.00500	0.0232	0	102	63	137
n-Butylbenzene	0.0213	0.00500	0.0232	0	92.0	65	138
n-Propylbenzene	0.0213	0.00500	0.0232	0	91.9	63	135
Naphthalene	0.0265	0.0150	0.0232	0	114	51	135
o-Xylene	0.0217	0.00500	0.0232	0	93.6	77	125
p-Isopropyltoluene	0.0212	0.00500	0.0232	0	91.2	75	133
sec-Butylbenzene	0.0214	0.00500	0.0232	0	92.5	63	132
Styrene	0.0214	0.00500	0.0232	0	92.2	74	128
tert-Butylbenzene	0.0214	0.00500	0.0232	0	92.3	65	132
Tetrachloroethene	0.0198	0.00500	0.0232	0	85.3	67	139
Toluene	0.0212	0.00500	0.0232	0	91.2	71	127
trans-1,2-Dichloroethene	0.0213	0.00500	0.0232	0	92.0	66	134
trans-1,3-Dichloropropene	0.0234	0.00500	0.0232	0	101	65	127
Trichloroethene	0.0223	0.00500	0.0232	0	96.0	77	124
Trichlorofluoromethane	0.0212	0.0150	0.0232	0	91.6	49	139
Vinyl chloride	0.0212	0.00500	0.0232	0	91.5	58	126
Surr: 1,2-Dichloroethane-d4	51.5		50.00		103	52	149
Surr: 4-Bromofluorobenzene	50.9		50.00		102	84	118
Surr: Dibromofluoromethane	50.2		50.00		100	65	135
Surr: Toluene-d8	49.3		50.00		98.7	84	116

Sample ID:	MB-47036	Batch ID:	47036	TestNo:	SW8260C	Units:	mg/Kg				
SampType:	MBLK	Run ID:	GCMS2_110701A	Analysis Date:	07/01/11 11:34 AM	Prep Date:	07/01/11				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane		ND	0.00500								
1,1,1-Trichloroethane		ND	0.00500								
1,1,2,2-Tetrachloroethane		ND	0.00500								
1,1,2-Trichloroethane		ND	0.00500								
1,1-Dichloroethane		ND	0.00500								
1,1-Dichloroethene		ND	0.00500								
1,1-Dichloropropene		ND	0.00500								
1,2,3-Trichlorobenzene		ND	0.00500								
1,2,3-Trichloropropane		ND	0.00500								
1,2,4-Trichlorobenzene		ND	0.00500								
1,2,4-Trimethylbenzene		ND	0.00500								
1,2-Dibromo-3-chloropropane		ND	0.00500								
1,2-Dibromoethane		ND	0.00500								
1,2-Dichlorobenzene		ND	0.00500								
1,2-Dichloroethane		ND	0.00500								
1,2-Dichloropropane		ND	0.00500								

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Baer Engineering
Work Order: 1107006
Project: USACE 1201 E 11TH

ANALYTICAL QC SUMMARY REPORT
RunID: GCMS2_110701A

1,3,5-Trimethylbenzene	ND	0.00500
1,3-Dichlorobenzene	ND	0.00500
1,3-Dichloropropane	ND	0.00500
1,4-Dichlorobenzene	ND	0.00500
2,2-Dichloropropane	ND	0.00500
2-Butanone	ND	0.0150
2-Chloroethylvinylether	ND	0.0150
2-Chlorotoluene	ND	0.00500
2-Hexanone	ND	0.0150
4-Chlorotoluene	ND	0.00500
4-Methyl-2-pentanone	ND	0.0150
Acetone	ND	0.0500
Benzene	ND	0.00500
Bromobenzene	ND	0.00500
Bromochloromethane	ND	0.00500
Bromodichloromethane	ND	0.00500
Bromoform	ND	0.00500
Bromomethane	ND	0.00500
Carbon disulfide	ND	0.0150
Carbon tetrachloride	ND	0.00500
Chlorobenzene	ND	0.00500
Chloroethane	ND	0.00500
Chloroform	ND	0.00500
Chloromethane	ND	0.00500
cis-1,2-Dichloroethene	ND	0.00500
cis-1,3-Dichloropropene	ND	0.00500
Dibromochloromethane	ND	0.00500
Dibromomethane	ND	0.00500
Dichlorodifluoromethane	ND	0.00500
Ethylbenzene	ND	0.00500
Hexachlorobutadiene	ND	0.00500
Iodomethane	ND	0.00500
Isopropylbenzene	ND	0.00500
m,p-Xylene	ND	0.00500
Methyl tert-butyl ether	ND	0.00500
Methylene chloride	ND	0.00500
n-Butylbenzene	ND	0.00500
n-Propylbenzene	ND	0.00500
Naphthalene	ND	0.0150
o-Xylene	ND	0.00500
p-Isopropyltoluene	ND	0.00500
sec-Butylbenzene	ND	0.00500
Styrene	ND	0.00500
tert-Butylbenzene	ND	0.00500
Tetrachloroethene	ND	0.00500
Toluene	ND	0.00500
trans-1,2-Dichloroethene	ND	0.00500

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Baer Engineering
Work Order: 1107006
Project: USACE 1201 E 11TH

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_110701A

trans-1,3-Dichloropropene	ND	0.00500					
Trichloroethene	ND	0.00500					
Trichlorofluoromethane	ND	0.0150					
Vinyl chloride	ND	0.00500					
Surr: 1,2-Dichloroethane-d4	48.8	50.00	97.6	52	149		
Surr: 4-Bromofluorobenzene	56.0	50.00	112	84	118		
Surr: Dibromofluoromethane	49.5	50.00	99.0	65	135		
Surr: Toluene-d8	50.6	50.00	101	84	116		

Sample ID:	1106249-01AMS	Batch ID:	47036	TestNo:	SW8260C		Units:	mg/Kg-dry			
SampType:	MS	Run ID:	GCMS2_110701A	Analysis Date:	07/01/11 06:16 PM		Prep Date:	07/01/11			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1,1-Dichloroethene		0.0218	0.00547	0.0254	0	86.1	65	136			
Benzene		0.0237	0.00547	0.0254	0	93.4	73	126			
Chlorobenzene		0.0226	0.00547	0.0254	0	89.0	75	123			
Toluene		0.0222	0.00547	0.0254	0	87.4	71	127			
Trichloroethene		0.0249	0.00547	0.0254	0	98.2	77	124			
Surr: 1,2-Dichloroethane-d4		54.3		54.68		99.3	52	149			
Surr: 4-Bromofluorobenzene		55.7		54.68		102	84	118			
Surr: Dibromofluoromethane		54.0		54.68		98.8	65	135			
Surr: Toluene-d8		54.5		54.68		99.7	84	116			

Sample ID:	1106249-01AMSD	Batch ID:	47036	TestNo:	SW8260C		Units:	mg/Kg-dry			
SampType:	MSD	Run ID:	GCMS2_110701A	Analysis Date:	07/01/11 06:46 PM		Prep Date:	07/01/11			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1,1-Dichloroethene		0.0202	0.00515	0.0239	0	84.4	65	136	7.91	30	
Benzene		0.0218	0.00515	0.0239	0	91.3	73	126	8.32	30	
Chlorobenzene		0.0213	0.00515	0.0239	0	89.0	75	123	5.99	30	
Toluene		0.0206	0.00515	0.0239	0	86.1	71	127	7.48	30	
Trichloroethene		0.0235	0.00515	0.0239	0	98.3	77	124	5.86	30	
Surr: 1,2-Dichloroethane-d4		52.0		51.50		101	52	149	0	0	
Surr: 4-Bromofluorobenzene		53.7		51.50		104	84	118	0	0	
Surr: Dibromofluoromethane		50.3		51.50		97.7	65	135	0	0	
Surr: Toluene-d8		51.2		51.50		99.5	84	116	0	0	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Baer Engineering
Work Order: 1107006
Project: USACE 1201 E 11TH

ANALYTICAL QC SUMMARY REPORT
RunID: GCMS7_110705B

Sample ID:	LCS-47058	Batch ID:	47058	TestNo:	SW8260C		Units:	mg/L			
SampType:	LCS	Run ID:	GCMS7_110705B	Analysis Date:	07/05/11 10:56 AM		Prep Date:	07/05/11			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane		0.0251	0.00100	0.0232	0	108	81	129			
1,1,1-Trichloroethane		0.0211	0.00100	0.0232	0	91.0	67	132			
1,1,2,2-Tetrachloroethane		0.0211	0.00100	0.0232	0	91.0	63	128			
1,1,2-Trichloroethane		0.0219	0.00100	0.0232	0	94.5	75	125			
1,1-Dichloroethane		0.0197	0.00100	0.0232	0	84.7	69	133			
1,1-Dichloroethene		0.0213	0.00100	0.0232	0	92.0	68	130			
1,1-Dichloropropene		0.0199	0.00100	0.0232	0	85.8	73	132			
1,2,3-Trichlorobenzene		0.0260	0.00500	0.0232	0	112	67	137			
1,2,3-Trichloropropane		0.0212	0.00100	0.0232	0	91.3	73	124			
1,2,4-Trichlorobenzene		0.0249	0.00500	0.0232	0	107	66	134			
1,2,4-Trimethylbenzene		0.0226	0.00500	0.0232	0	97.4	74	132			
1,2-Dibromo-3-chloropropane		0.0237	0.0100	0.0232	0	102	50	132			
1,2-Dibromoethane		0.0226	0.00100	0.0232	0	97.4	80	121			
1,2-Dichlorobenzene		0.0230	0.00100	0.0232	0	99.3	75	125			
1,2-Dichloroethane		0.0199	0.00100	0.0232	0	85.8	68	127			
1,2-Dichloropropane		0.0209	0.00100	0.0232	0	90.1	75	125			
1,3,5-Trimethylbenzene		0.0228	0.00500	0.0232	0	98.1	74	131			
1,3-Dichlorobenzene		0.0229	0.00100	0.0232	0	98.8	75	124			
1,3-Dichloropropane		0.0211	0.00100	0.0232	0	91.0	73	126			
1,4-Dichlorobenzene		0.0223	0.00100	0.0232	0	96.0	74	123			
2,2-Dichloropropane		0.0226	0.00100	0.0232	0	97.3	69	137			
2-Butanone		0.0193	0.0150	0.0232	0	83.2	49	136			
2-Chloroethylvinylether		0.0230	0.0150	0.0232	0	99.3	50	150			
2-Chlorotoluene		0.0216	0.00100	0.0232	0	93.3	73	126			
2-Hexanone		0.0229	0.0150	0.0232	0	98.5	50	150			
4-Chlorotoluene		0.0219	0.00100	0.0232	0	94.6	74	128			
4-Methyl-2-pentanone		0.0217	0.0150	0.0232	0	93.4	58	134			
Acetone		0.0234	0.0150	0.0232	0	101	40	135			
Benzene		0.0214	0.00100	0.0232	0	92.3	81	120			
Bromobenzene		0.0227	0.00100	0.0232	0	97.7	76	124			
Bromochloromethane		0.0222	0.00100	0.0232	0	95.5	65	129			
Bromodichloromethane		0.0223	0.00100	0.0232	0	96.3	76	121			
Bromoform		0.0263	0.00100	0.0232	0	113	69	128			
Bromomethane		0.0367	0.00100	0.0232	0	158	53	141			S
Carbon disulfide		0.0260	0.0150	0.0232	0	112	50	150			
Carbon tetrachloride		0.0233	0.00100	0.0232	0	101	66	138			
Chlorobenzene		0.0218	0.00100	0.0232	0	94.1	81	122			
Chloroethane		0.0277	0.00100	0.0232	0	119	58	133			
Chloroform		0.0204	0.00100	0.0232	0	88.1	69	128			
Chloromethane		0.0241	0.00100	0.0232	0	104	56	131			
cis-1,2-Dichloroethene		0.0211	0.00100	0.0232	0	91.0	72	126			
cis-1,3-Dichloropropene		0.0236	0.00100	0.0232	0	102	69	131			
Dibromochloromethane		0.0248	0.00100	0.0232	0	107	66	133			
Dibromomethane		0.0212	0.00100	0.0232	0	91.2	76	125			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Baer Engineering
Work Order: 1107006
Project: USACE 1201 E 11TH

ANALYTICAL QC SUMMARY REPORT
RunID: GCMS7_110705B

Dichlorodifluoromethane	0.0254	0.00100	0.0232	0	109	53	153
Ethylbenzene	0.0227	0.00100	0.0232	0	97.7	80	120
Hexachlorobutadiene	0.0228	0.00300	0.0232	0	98.1	67	131
Iodomethane	0.0202	0.0150	0.0232	0	87.1	50	150
Isopropylbenzene	0.0229	0.00100	0.0232	0	98.8	75	127
m,p-Xylene	0.0464	0.00200	0.0464	0	100	80	120
Methyl tert-butyl ether	0.0178	0.00100	0.0232	0	76.9	68	123
Methylene chloride	0.0224	0.00250	0.0232	0	96.7	63	137
n-Butylbenzene	0.0230	0.00100	0.0232	0	99.1	69	137
n-Propylbenzene	0.0222	0.00100	0.0232	0	95.5	72	129
Naphthalene	0.0271	0.00500	0.0232	0	117	54	138
o-Xylene	0.0227	0.00100	0.0232	0	97.8	80	120
p-Isopropyltoluene	0.0233	0.00100	0.0232	0	100	73	130
sec-Butylbenzene	0.0222	0.00100	0.0232	0	95.7	72	127
Styrene	0.0237	0.00100	0.0232	0	102	65	134
tert-Butylbenzene	0.0225	0.00100	0.0232	0	96.9	70	129
Tetrachloroethene	0.0229	0.00200	0.0232	0	98.6	66	128
Toluene	0.0218	0.00200	0.0232	0	94.2	80	120
trans-1,2-Dichloroethene	0.0211	0.00100	0.0232	0	90.8	63	137
trans-1,3-Dichloropropene	0.0227	0.00100	0.0232	0	97.7	59	135
Trichloroethene	0.0232	0.00200	0.0232	0	100	70	127
Trichlorofluoromethane	0.0238	0.00100	0.0232	0	103	57	129
Vinyl chloride	0.0231	0.00100	0.0232	0	99.7	50	134
Surr: 1,2-Dichloroethane-d4	188		200.0		93.8	72	119
Surr: 4-Bromofluorobenzene	187		200.0		93.6	76	119
Surr: Dibromofluoromethane	187		200.0		93.6	85	115
Surr: Toluene-d8	194		200.0		97.0	81	120

Sample ID:	MB-47058	Batch ID:	47058	TestNo:	SW8260C	Units:	mg/L				
SampType:	MBLK	Run ID:	GCMS7_110705B	Analysis Date:	07/05/11 11:46 AM	Prep Date:	07/05/11				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane		ND	0.00100								
1,1,1-Trichloroethane		ND	0.00100								
1,1,2,2-Tetrachloroethane		ND	0.00100								
1,1,2-Trichloroethane		ND	0.00100								
1,1-Dichloroethane		ND	0.00100								
1,1-Dichloroethene		ND	0.00100								
1,1-Dichloropropene		ND	0.00100								
1,2,3-Trichlorobenzene		ND	0.00500								
1,2,3-Trichloropropane		ND	0.00100								
1,2,4-Trichlorobenzene		ND	0.00500								
1,2,4-Trimethylbenzene		ND	0.00500								
1,2-Dibromo-3-chloropropane		ND	0.0100								
1,2-Dibromoethane		ND	0.00100								
1,2-Dichlorobenzene		ND	0.00100								
1,2-Dichloroethane		ND	0.00100								
1,2-Dichloropropane		ND	0.00100								

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Baer Engineering
Work Order: 1107006
Project: USACE 1201 E 11TH

ANALYTICAL QC SUMMARY REPORT
RunID: GCMS7_110705B

1,3,5-Trimethylbenzene	ND	0.00500
1,3-Dichlorobenzene	ND	0.00100
1,3-Dichloropropane	ND	0.00100
1,4-Dichlorobenzene	ND	0.00100
2,2-Dichloropropane	ND	0.00100
2-Butanone	ND	0.0150
2-Chloroethylvinylether	ND	0.0150
2-Chlorotoluene	ND	0.00100
2-Hexanone	ND	0.0150
4-Chlorotoluene	ND	0.00100
4-Methyl-2-pentanone	ND	0.0150
Acetone	ND	0.0150
Benzene	ND	0.00100
Bromobenzene	ND	0.00100
Bromochloromethane	ND	0.00100
Bromodichloromethane	ND	0.00100
Bromoform	ND	0.00100
Bromomethane	ND	0.00100
Carbon disulfide	ND	0.0150
Carbon tetrachloride	ND	0.00100
Chlorobenzene	ND	0.00100
Chloroethane	ND	0.00100
Chloroform	ND	0.00100
Chloromethane	ND	0.00100
cis-1,2-Dichloroethene	ND	0.00100
cis-1,3-Dichloropropene	ND	0.00100
Dibromochloromethane	ND	0.00100
Dibromomethane	ND	0.00100
Dichlorodifluoromethane	ND	0.00100
Ethylbenzene	ND	0.00100
Hexachlorobutadiene	ND	0.00300
Iodomethane	ND	0.0150
Isopropylbenzene	ND	0.00100
m,p-Xylene	ND	0.00200
Methyl tert-butyl ether	ND	0.00100
Methylene chloride	ND	0.00250
n-Butylbenzene	ND	0.00100
n-Propylbenzene	ND	0.00100
Naphthalene	ND	0.00500
o-Xylene	ND	0.00100
p-Isopropyltoluene	ND	0.00100
sec-Butylbenzene	ND	0.00100
Styrene	ND	0.00100
tert-Butylbenzene	ND	0.00100
Tetrachloroethene	ND	0.00200
Toluene	ND	0.00200
trans-1,2-Dichloroethene	ND	0.00100

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Baer Engineering
Work Order: 1107006
Project: USACE 1201 E 11TH

ANALYTICAL QC SUMMARY REPORT
RunID: GCMS7_110705B

trans-1,3-Dichloropropene	ND	0.00100					
Trichloroethene	ND	0.00200					
Trichlorofluoromethane	ND	0.00100					
Vinyl chloride	ND	0.00100					
Surr: 1,2-Dichloroethane-d4	189	200.0	94.5	72	119		
Surr: 4-Bromofluorobenzene	187	200.0	93.4	76	119		
Surr: Dibromofluoromethane	189	200.0	94.3	85	115		
Surr: Toluene-d8	192	200.0	96.2	81	120		

Sample ID:	1107006-02AMS	Batch ID:	47058	TestNo:	SW8260C		Units:	mg/L			
SampType:	MS	Run ID:	GCMS7_110705B	Analysis Date:	07/05/11 03:34 PM		Prep Date:	07/05/11			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1,1-Dichloroethene		0.0217	0.00100	0.0232	0	93.7	68	130			
Benzene		0.0227	0.00100	0.0232	0	97.8	81	120			
Chlorobenzene		0.0221	0.00100	0.0232	0	95.2	81	122			
Toluene		0.0224	0.00200	0.0232	0	96.6	80	120			
Trichloroethene		0.0237	0.00200	0.0232	0	102	70	127			
Surr: 1,2-Dichloroethane-d4		187	200.0		93.6	72	119				
Surr: 4-Bromofluorobenzene		187	200.0		93.4	76	119				
Surr: Dibromofluoromethane		191	200.0		95.4	85	115				
Surr: Toluene-d8		195	200.0		97.3	81	120				

Sample ID:	1107006-02AMSD	Batch ID:	47058	TestNo:	SW8260C		Units:	mg/L			
SampType:	MSD	Run ID:	GCMS7_110705B	Analysis Date:	07/05/11 03:59 PM		Prep Date:	07/05/11			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1,1-Dichloroethene		0.0219	0.00100	0.0232	0	94.2	68	130	0.550	20	
Benzene		0.0220	0.00100	0.0232	0	94.7	81	120	3.23	20	
Chlorobenzene		0.0218	0.00100	0.0232	0	94.1	81	122	1.18	20	
Toluene		0.0220	0.00200	0.0232	0	95.0	80	120	1.71	20	
Trichloroethene		0.0236	0.00200	0.0232	0	102	70	127	0.423	20	
Surr: 1,2-Dichloroethane-d4		188	200.0		94.2	72	119		0		
Surr: 4-Bromofluorobenzene		186	200.0		93.2	76	119		0		
Surr: Dibromofluoromethane		191	200.0		95.4	85	115		0		
Surr: Toluene-d8		194	200.0		96.9	81	120		0		

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Baer Engineering
Work Order: 1107006
Project: USACE 1201 E 11TH

ANALYTICAL QC SUMMARY REPORT
RunID: PMOIST_110705A

Sample ID:	1107006-10BDUP	Batch ID:	47051	TestNo:	D2216	Units:	WT%			
SampType:	DUP	Run ID:	PMOIST_110705A	Analysis Date:	07/06/11 08:45 AM	Prep Date:	07/05/11			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Percent Moisture	9.27	0	0	9.021				2.69	30	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified